The Minina Tournat

AND COMMERCIAL GAZETTE.

To. 20. Vol. 2.

LONDON, SATURDAY, JANUARY 9, 1836.

Price 7d.

SALE.—At the Office of CHARLES MANN, Stock and Share Broker, 7, Old Broad-street. at several of the best Mining Companies of Cornwall that are now divid-

the Iron Railways, Gas, Fire, and Life Insurance Companies, &c. &c. United States' Stocks and Bank Shares, that are now paying a dividend

W BRUNSWICK AND NOVA SCOTIA LAND COMPANY.

BE Court of Directors of the New Brunswick and Nova Scotia Land
company hereby give notice, that they have made a call of #3 per Centum
Capital Stock of the above Company; and the Stockholders are hereby retopay the same on or before Saturday, the 16th day of January next ento the account of the said Company, either to Messrs. Williams, Deacon,
b, bankers, Birchin-lane, London; or to Messrs. Wright and Co., bankers,
Learden, London.
By Order of the Court,
william AGGAS.

UITABLE DISCOUNT SOCIETY, established pursuant to let of Parliament, 3d and 4th Wm. IV., c. 9s. Office, (pro. tem.,) 37, Marliborough street, Regent-street.

Capital #100,000, with power of increase to a million, in #100 Shares.

Deposit #21 per share.

Bankers—The London and Westminster Bank, 9, Waterloo-place.

dee is hereby given, that Thursday, the 9th inst., is the last day for receiving ations for shares, until which time they may be obtained on payment of the #4, at the office as above, hetween the hours of 10 and 4; or at the bankers.

17, 1835.

By order.

The Directors hereby give notice of a CALL upon the Shareholders of los-dare, to be paid at Sir Charles Price, Bart., and Co.'s, King William-street, siden.house, London, on or before the 23rd day of January next, or the shares to liable to forfeiture according to the terms and conditions of the Company, de necessary for the bankers' receipt, together with the scrip certificates, left at the office for two days, that the payment may be duly certified.—1, semically satisfactory Reports from the Mines may be inspected at the office.

OUNTS BAY SILVER-LEAD, COPPER, AND TIN MINES,

In CORNWALL.

PPLICATIONS for SHARES in this COMPANY, addressed to C. R. ROBERTS, Secretary, 7, Gray's-inn-square, London, (post paid) Prospectuses may be had.

HE DURHAM SOUTH-WEST JUNCTION RAILWAY.—Capital 50,000f. in 1000 Shares of 56f. each. Deposit 3f. per Share.

PAOVISIONAL COMMITTEE.

John Princes Equ.

F. S. Stokes, Eq.

Thomas Wilson, Esq.

Captain J. K. Purbes

Henry G. Key, Esq.

John Labouchere, Esq.

John Labouchere, Esq.

Thomas Wilson, Esq.

Thomas Wilson, Esq.

Thomas Wilson, Esq.

ith power to add to their Number. Committee in the North to be hereafter named.

nkers—The Darlington Joint Stock Banking Company.—Messrs. Williams,
Deacon, and Co. London.

Beacon, and Co. London.

Bolictor—Thomas Weldon, Esq., Barnard Castle.
Parliamentary Agents—Messrs. Jones and Walmsiey.

A great portion of the shares being already subscribed for, applications for mainder must be made as above, on or before Wednesday, the 13th instant, to ge Child, Esq., Secretary to the Clarence Railway Company, 7, Birchin Lane, bill.

NTI DRY-ROT COMPANY .- KYAN'S PATENT. - 10,000 Shares

St. each.

JURSCOT COMPANY.—KYAN'S PATENT.

25f. each.

Thomas Philipotas, Esq., Chairman.

W. R. Vigers, Esq., Deputy Chairman.

Thomas Starling Benson. Esq.

George Borradalle, Esq.

George Borradalle, Esq.

Francis Sinjte, Esq.

Francis Sapte, Esq.

Francis Sapte, Esq.

LIVERPOOL. Charles Horsfall, Esq.

BIRMINGHAM.
Theophilus Richards, Esq.

BIRMINGHAM.

Theophilus Richards,
Engineer—M. I. Brunel, Esq.

Bankers—Mesars. All, Thompson, and Sowell.

Solicitors—Mesars. Hall, Thompson, and Sewell.

Secretary (pro tem)—Charles Terry, Esq.

Secretary (pro tem)—Charles Terry, Esq.

The indisputable testimonials given by men of the first talent and experience in a kingdom, as to the perfect reliance that may be placed upon Kyan's process of sparing timber to resist the effect of dry rot and other decay, are so entirely disfactory as to require no further remark. The efficacy of the process is sufficiently established by the evidence contained the report to the Lords of the Admiralty, and subsequently presented to, and inted by, the House of Commons; and likewise by the adoption of it by His alesty's Government in Portsmouth Dockyard.

Extracts from minutes of evidence reported by the Gommissioners appointed by a Admiralty, and presented to the House of Commons, July 9, 1835 —

Er R. Smirke.—"This preparation of Mr. Kyan's resists all rot." I cannot all" added Sir R. Smirke.

If Admiralty, and presented to the House in Admiralty, and presented to the House in Admiralty, and presented to the House in Admiralty and the William R. Smirke.—"This preparation of Mr. Kyan's resists all rot." "I cannot did" added Sir R. Smirke.

Professor Faraday.—"These reasons, combined with a close examination of sections shown him, make him strongly recommend it; and he would be quite filing, if there were occasion, to trust a good deal of property upon it." Br John May.—"In regard to the canvass, four prepared pieces were not affect with middew; three unprepared pieces were affected with it, and one of them as quite rotten."

By the use of this process British American timber will be rendered equally as aliable as timber from the Baltic, and thus the produce of British Colonies will steneouraged in preference to timber of foreign growth.

It is found that timber cut down while in a state of active vegetation, with the digrowing, becomes, by the application of this process, immediately fit for all purposes incliental to farming and husbanday—the rendering every species of domestic timber of the same value and as milable as the best foreign for all purposes incliental to farming and husbands, processed and a company be formed, under a licenset will derive incalculable advantages.

These facts having been proved in the most astisfactory sanner, it is proposed at a Company be formed, under a licence from the patentees, the consideration we which has been agreed upon, and the above gentlemes have been named to any that object into effect.

hat a Company be formed, inner a bester tool enter that a Company be formed, those a been agreed upon, and the above gentiemen have been named to stry that object into effect. Applications for shares to be made, post paid, to the Secretary, at the office of it Company, 2, Lime street Square, Leadenhall-street, London, where prospecies may be had, and further particulars obtained.

No applications for shares can be received after the 20th of January, as the freeters will appropriate the shares on Thursday, the 31st of January.

Capital £300,000, divided into 6,000 shares of £30 each: deposit of £3 10s.

is adopted with the view of continuing the London and Blackwall rail-in in inject into the metropolis through Barking, Dagenham, Rainham, ole-Haven, Leigh, to Southend, with branches to Blord, Purficet, Rom-ry Fort, Mucking, Rochford, and other trading places on the line of distance by land to Southend is 44 miles, by the railway it will be 34, view 18 miles.

The distance of his railway are not founded upon speculation, but upon the in-spects of this railway are not founded upon speculation, but upon the in-

riving the very fertile county of Essex.

Applications for shares and prospectuses, stating fully the objects of the underthing, to be made to the bankers, Messrs. Ladbrokes, Kingscote, and Co., Banktilldings, to Messrs. Sparrow and Co., bankers, Chelmsford; James Lambert,
Bu, Barking; to the solicitor, Thomas Brown, Esq., 11, Mark-lane, Penchurchtweet London; Messrs. Comport and Knyvett, solicitors, Rochford; or to the
surveys, at the Railway-offices, 11, Mark-lane; which will be submitted to the
stretches for their approbation and allotment.

Bailway offices, 11, Mark-lane.

G. COLE, Sec.

WEST WHEAL BROTHERS.

TO further Applications for Shares in the above Mine can be received after this date, and bankers' receipts may be exchanged for serip certificates, the office, as under, after the 18th instant, where also prospectues and further riculars of the Mine may be had.

3. Broad-street Buildings, Jan. 6, 1886.

ROYAL COBRE MINING ASSOCIATION.

OTICE is hereby given, that all holders of Shares in the above Company, who shall have paid up their instalments then due, may receive Bividend of Thirty-two Shillings per Share, on application at the house of Sir mess Estable & Co., Lombard-street, on and after the 28th day of January next, steven the hours of twelve and two.

By order of the Court of Directors,

W. LECKIE, Sec.

CORNWALL—CAUTION TO MINERS AND MINE ADVENTURERS.

WHEREAS the Duke of Bockingham and Chandes is the SOLE PROPRIETOR of the MINERALS in and throughout the Manor of St. Perran, commonly called "the CHURCH LANDS," within which are CARN-KIEFS, THE SANDS, GEAR, &c., situate in the Parish of Perfansabuloe, I hereby caution all persons from negotiating with, or according any licence or sett from, any other person than myself, or such other as may be duly deputed by the said Duke. And I further caution all persons from interfering with or working any Mine or Mines within any part of the said Manor, without having first obtained legal permission from mc, or such other person as aforesaid.

St. Mawes, Jan. 4, 1836.

NORTHERN and EASTERN RAILWAY, according to the PLANS laid down by James Walker, Esq. LONDON COMMITTEE.

The Earl of Euston, M.P. Surfolk J. Aggrestein, Esq., M.P., Norfolk J. Aggrestein, Esq., M.P., Herts Sir H. Redingfield, Bart., Norfolk Sir T. B. Reevor, Bart., Norfolk J. Bagahaw, Esq., M.P., London Sir W. J. H. B. Polkes, Bart., M.P. Norfolk W. J. H. B. Polkes, Bart., M.P. Norfolk W. J. Harvey, C.B.K.T.S. Norfolk W. M. Rholes, Esq., London H. G. Ward, Esq., Essex Recs, G. Thuman, Esq., London H. G. Ward, Esq., M.P., Herts Edmund Workhouse, Esq., M.P., Norfolk F. Walker, M. S. Sandon H. G. Ward, Esq., M.P., Herts Edmund Workhouse, Esq., M.P., Norfolk

The Earl of Euston, M.P. Morfolk
Sir J. Astley, Bt., M.P., Norfolk
J. Angerstein, Esq., M.P., London
R. Alston, Esq., M.P., London
R. Alston, Esq., M.P., London
Sir M. Bedingfield, Bart., Norfolk
Sir H. Bedingfield, Bart., Norfolk
Sir H. Bedingfield, Bart., Norfolk
J. Bagshaw, Esq., M.P., London
Sir W. J. H. B. Folkes, Bart, M.P.
Norfolk
Col. Sir R. J. Harrey, C.B. K.T.S. Norfolk
Col. Sir R. J. Harrey, C.B. K.T.S. Norfolk
Charles Johnston, Esq., Herts
The Committee feel it due to the subscribers to the undertaking, and to the public who take an interest in it, to inform the subscribers to the undertaking, and to the public who take an interest in it, to inform them that the Parliamentary plans and sections have been deposited with all the Clerks of the Parliamentary plans and sections have been deposited with all the Clerks of the Parliamentary plans and sections have been deposited with all the Clerks of the Parliamentary plans on the subscribers to the undertaking, and to the public who take an interest in it, to inform them that the parliamentary plans and sections have been deposited with all the Clerks of the Parliamentary plans and sections have been deposited with all the Clerks of the Subscribers, that the returns of traße made freen actual examination upon the spot, show a much larger income than they had calculated on. The valuation of the farming land on the line by lisuwes. Driver, and of the building land by Mr. Hardwick, is in progress, and the application to Parliament for a bill will be made immediately on its meeting on the 4th of Pebruary.

CHAS. ROUCEOFT.

SETTIMUM HORGES, Secretaries.

TO BE SOLD by private Contract, the Fee Simple and Inheritance of and in all that CAPITAL BARTON and FARM, compring two Tenements called Tregue and Little Behithiot, situate in the several Parinte of Alternon and St. Cleather, in the county of Cornwall, now and for many years last past in the occupation of Mr. Richard Northey, consisting of a convenient Farm House, with Barns, Stables, and other suitable 0 outhouses; about 128 Acres of Arable, Meadow, and Pasture Land, and about 128 Acres of Commons and Barns, Grounds a fitteding a most desirable Pasture for Sheep. The Premises are head on Lease, by Bir-Northey, for a term of 14 years from Michaelman, 183, at the clear rack rent of 1861, per annum; have lately undergone a thorough regula, and are well supplied with water, and possess the advantages of good roads; excellent markets, and great facilities of communication with all parts of the hinghous, being only about one mile from Five Lanes (through which the mail and other concluse pass daily, and within convenient distances of Lanceston and several other market towns; and in all probability the great Bodenia and Wadelerkige. Ball Road will be extended to its immediate neighbourhood. This property offers good inducements to gentlemen of capital, as affording an opportunity for easy inventment, and more especially to gentlemen disposed to embark in mining speculations, as there are several Lodes of Tin, Copper, Mangaosses, and other metals intersecting and running through the lands; and a stream work has lately been manaced by a most respectable company of adventurers, which, from discourses already made, promises considerable profit to the propristor, who will not what the whole or a moiety of the minerals as may be most agreeable to a greeness. For a view of the property apply to the tenant, and for further internation to Mr. Thomas Rogers, Solicitor, Helston, Cornwall.—Dated 24th Den 1825.—N.B. All Letters must be post-paid.

JUST PUBLISHED, IN 4to, WITH FOUR MATES, PRICE 14.

JUST PUBLISHED, IN 4to. WITH FOUR LATES, PRICE 14s.

TWHE PHILOSOPHICAL TRANSACTIONS of the ROYAL SOLUTION OF THE PRICE STATES.

CIETY of London, for the Year 1303, Part II, consisting the following Papers:—Sir Charles Bell's continuation of the Paper on a London between the Nerves of Motion and of Sensation, and the Brain, and never particularly on the Structure of the Medulla obburgata and the Spins of Motion and the Paper on a London Structure of the Medulla obburgata and the Spins of Motion. Is For Faraday's Tenth Scries of Experimental Researches in Electricity 1. Libbook, Disconlines of the Observations and Liverpook. A long the Control of the Control of the Control of the Motion of Papers of Liverpook. A long the Control of the Control of

June 1832.
Published by the Royal Society; and sold by Richard Taylor, Red Lion-court ect-street; where also may be had:—

cet-street, where also may be had:—
Abstracts of the Papers Printed in the Philosophical Transactions, vols. 8vo. 15s.; or 2 vols. 4tc. 26s.

Capital £56,000, in 10,000 Sh res, of £5 each.—Deposit £1 per Share.

PROVISIONAL COMMITTEE.

Messrs. Yice, Baynard, and Treloar.

With power to add to their number.

BANKERS.

LONDON—Sir R. Carr Glyn, Hallifax, Mills, and Co.

The Sets belonging to this Company lie each, and adjoining the Consolidated Mines, in Gwennap.

A Prospectus, setting forth the particulars of the Sets, and the regulations by which the Company is to be governed, will be shortly issued.

Applications for Shares to be made to the Committee as above, or to Mr. Tagsala, of Chevelah, near Truro.

Truro, Dec. 24, 1835. WHEAL FALMOUTH CONSOLIDATED MINING COMPANY.
Capital £10,000, in 10,000 Shures, of £5 each.—Deposit £1 per Share.

Truro, Dec. 24, 1835.

LANDED AND MINING INTERESTS.

A T a GENERAL MEETING of Landowners, Miners, and others concerned, held at the Hotel, Truro, December 99, 1835,

Il was Resolved,
That the humble and grateful thanks of this meeting be presented to his Majesty, the King, for the letter now read, as received by the Earl of Falmouth from the Commissioners for managing the affairs of the Duchy of Cornwall, and for the intensition therein conveyed, that as an act of grace towards those who had appealed to his Majesty in their Memorial, presented by Lord Falmouth, and relating to claims made by certain lessees of the Duchy Merzak, his Majesty will be graciously pleased to give His Royal Assent to the passing of an Act through Parliament for placing the Duchy upon the same footing in regard to the limitation of time as that in which the town was placed by the Nullum Tempus Act, passed in the reign of King George the Third.

That the foregoing resolution he transmitted by the Chairman to the Commissioners for managing the affairs of the Duchy, in order that the earliest opportunity may be taken for laying it before his Majesty the King, and that an humble Address, in accordance with the same, he presented to his Majesty, by the Earl of Palmouth in person, at his earliest convenience.

(Signed).

PALMOUTH, Chairman.

The Earl of Palmouth having left the Chair,

Resolved,

That the thanks of this Meeting be offered to the Earl of Falmouth for his able onduct in the Chair, and the seal and attention which he has evinced in bringing be business now before the Meeting to a successful issue.

beg to acquaint the Shareholders that a DIVIDEND of 74 per sent, will be PAID on the two instalments of 36, each per share, at the Company's offices, on January 8, 1896, between the hours of 11 and 4; and the shareholders are requested to leave their shares and instalment receipts three days previously for easination.

By order of the Directors, WM. STH. AMIES, Secretary, Essex Marine Salt Office, 11, Abchurch-lane, Jan. 1, 1826.

SOUTH DURHAM RAILWAY.—Capital £150,000, in shares of 504, each.—Deposit 51. 10s. per share.

DIRECTORS.

G. H. WILKINSON, Esq. Harperley-park, Chairman.

Wim. Russell, Esq., Brancepeth Cantil.

R. E. D. Sharto, Esq., Whitworth Park.
Coloned Mills, Willington
Thomas Greenwell, Esq., Durham.

Mm. Mills, Esq., Durham.

Bankers.—Messes. Williams, Descent, and Co., London; Sir M. W. Railey, Bart.,
and Co., Durham; the Joint Stock Banking Company, Darlington.

The socressry notices have been given, the plant, section, and book of reference have been ledged, and application will be made in the ensuing session for an act.
The sources of profit show a return of railor miles than 15 per cent. spon the most careful calculations, which are borns out by the testimony of the most able sugments.

MEMORIAL OF LORD DE DUNSTANVILLE.

odvertised, #2,967 17s.

Sir R. H. Vivian, Bart., for the fund, 38L, for the Mo-nument, 3f. Mr. Tobias Lanyon Mr. Edward Lanyon Mr. Edward Lanyon Mr. Thomas Hutchinson, for the fund Capt. Joseph Vivian, diffo. W. Michell, ditto Mr. R. W. Vivian

North and South Roshear Labourers

H. P. Andrew, Req. (omitted
inst week).

d3,260 7s. 64. PAMILY ENDOWMENT SOCIETY, for granting, at or after the time of Marriage, ENDOWMENTS to the CHILDREN who may issue

Office (temperary), 33, Great Winchester-street.
CAPITAL, # 500,600.
TRUSTEEN,
Sper Greafell, Esq. Martin Tucker Smith, Esq.

CAPITAL, & too, see.

CAPITAL, & too, see.

TRUSTEES,

Pascoe St. Leger Grenfell, Esq. Martin Tucker Smith, 1

Berry Porcher, Esq. DIRECTORS.

Henry George Mirce Muskett, Esq., Depoty Chairman.

George Afred Muskett, Esq., Depoty Chairman.

William Butterworth Bayley, Esq. Edward Lee, Esq.

Pascoe St. Leger Grenfell, Esq. Major John Leard,

Pascoe St. Leger Grenfell, Esq. Major John Leard,

of the Hus- band.	of the Wife.	Annual Premium, cease at Husband Death, or after the 15th Payment.						
94	19	4.		d. 10	4 8 2			
25	91	17		10	3 .4			
31	25	16			30.3			
36	30	14	7		0 2 4			
49	35	12	11		3.4			
89	40	10	15		248			

The premiums may also be computed to cease in the event of the death of the mother, or of either of the two parents who might die first.

The premiums for endowing future boys only, or future girls only, are rathe more than one half of those for all children.

The premiums payable during at years for endowing future children at 2) year of age, are somewhat less than two-thirds of those in the above cable.

The premiums for endowing existing children are most fraturable (if dealers in case they do not attain the age of endowings).

The parties endowing future children will be notified to four-fifties of the profit the shows premiums being more than authorized to easily the foreign of a factors of the state of th

CORNWALL GREAT UNITED MINES. - 6,000 shares | 610 y

/ share.

The Public are requested to refer to the Prospectus.

The property of this Company comprises Greenhills, shillstone, Prosper, Clannamonth, and contiguous proved and valuable mines near Callington and Listeaux,

lius Hills, embracing the continuation and the underlay of the rich Polherus and

Neal Kitty lodes in St. Agnes.

The well accertained lodes in Crowgie, Latie, and other estates in the neighcourhood of Ruby and Garidina Mines, in the parish of Wendrun.

Applications for Prospectuses and shares are to be made to James Trower Bulock, Esq., 6, John-street, Adelphi; or to Mr. F. V. Williams, at the Office of the

Company, where plans may be seen, and other particulars obtained.

BRITISH SILVER-LEAD and COPPER MINING COMPANY.
Capital 128,000f., in 13,006 Shares of 10f. each. Deposit 2f. per Share.

DIRECTORS.

W. Millett Thomas, Eaq., London.
John Waller, Eaq., London.
John Waller, Eaq., London.
Belward Bister, Eaq., London.
Edward Bister, Eaq., London.
With power to add two Directors for Liverpool and Maschuste
London Bankers—Northern and Central Bank of Singland.
Truro Bankers—Northern and Central Bank of Singland.
There Bankers—Northern and Central Bank of Singland.
There All Central Bank of Singland.
There All Central Bank of Singland.
Jacobserver, Maschester, and Freston—Mr. Henry Lucas, 35,
jaken, Liverpool.
Canhier and Purser at the Mines—P. Vyvyan Robinson, Eaq. of Nansice
Cornwall.
These Mines are situated at Torleaven. in the immediate vicinity of P.

Danker and Purser at the Mines—P. Vyvyna Robinson, Esq., of Nansice, Heiston,
Curswall.

These Mines are situated at Torleaven, in the immediate vicinity of Porthicaven
Harbour, in the parish of Smithney, Mount's Bay, Cornwall.

It may be asserted, without heavistation, that these Mines will prove as abundant
and profitable for Silver-lead and Copper as any in the West of Kingiand, being sywards of lose fathoms in length on the course of the lodes, and 476 fathoms in
breadth, with twelve shafts ready for working, one of which is 56 fathoms in depth
below the add; level.

The lodes which they contain, having been satisfactorily traced, are of the largest
size and of the produced, the said by Boalous, in his "Natural History of Cornwall,"
published 1750, page 310, to have been wrought upwards of 500 years, and as labe
as 1850, when the work was suspended on account of the low priew of lead (at, per
ton of 35 cwt.) and the heavy discs, cond-welfth paid to the Lord of the Masor, the
vein of lead produced, in many instances, as much as it tune of ora per fathom,
leaving at the bottom of the shaft a very rich course of fead ores for future worklings. The price of lead is now 161, 26, 66, per ton of 50 cwt., and the anaw of ore
from these Mines is from at to 80 cances of sliver ton to 100, and an anaw of ore
from these Mines is from at to 80 cances of sliver ton the ton. The Wheal Public
and Trecoverac Copper lodes, which traverse these Mines greatly chance they
value, the latter lode, Treworvas, is now realising a large profit, at a short distance from the British Silver Lead Mines.

There is a large quantity of the whole ground, above 66 fathoms level, which
can be immediately opened with great facility and profit.

The tenure of the chief part is a 11 years lesse from November last, paying to
the Lord of the Masor, the Rev. Canon Rogers, one twestly fourth dues, till such
time as the outlay for costs be repaid to the Company by the sale of produce, and
then one twentieth permanently, Proc of all parcolaid and

The Capital of the Company is to be 120,000f., in 13,000 charms of 161,000h. The first instalment of 31, per chare to be paid to either of the bankers by the ince fixed in the letter of appropriation.

No further instalment will be called for without one month's notice, and not to

WHEALS HARMONY and MONTAGUE CONSOLIDATED COP-PER and TIN MINING COMPANY.

HE DIRECTORS impressed with a conviction of the great value of the second of the great values, feel it a duty they were to the numerous applicants for S the public generally, to submit to them the following extracts from vers and reports, relative to the past and present state of the Mines, and

betters and reports, relative to the past and present state of the Mines, and their future prospects:—
"Wheel Harmony was originally taken up by a party who determined upon working a large hard and uncongenial tin lode or vein, against the epinlon of the unhers and others in the neighbourhood, who advised him that there were many other veins both of tin or copper in the sett or mine, which though smaller, would produce more ore, and be sure to be profitable in depth, but regardless of repeated produce more ore, and be sure to be profitable in the produce more ore, and be sure to be profitable and the quantity of the continued operations on the great lode until he had expended upwards of 90,00%. His fauds nearly exhausted, without any chance of reimbursement from the great lode, he made-cross cuts into some of the smaller lodes as he had before been recommended to do; in two years he repaid all his outlay, and the quantity of tin recommended to do; in two years he repaid all his outlay, and the quantity of tin recommended to the production, and the wine was not only giving profits, but in that state that there was no kind of doubt of its being one of the most profitable in the country, and the mine was necessarily suspended. About two years previous to its suspension, in consequence of the richness and productiveness of the copper lodes in this mins, the immediately adjoining sett on the western boundary. Wheal bloomingue, was undertaken, and a new shaft and steam engine, &c. &c., was erected, and 49,00% of ore was raised the first year, the second year made equal profits, when the largest shareholder and the lords disputed, and the workings were suspended.

Montague, was undertaken, and a new shaft and steam engine, &c. &c., was exected, and as, each, of one was raised the first year, the second year made equal profits, when the largest shareholder and the lorid dispated, and the workings were suspended. If the sum of the sum o

(Signed) PETER WILLOUGHBY.

There is now about two years and a half unexpired of the original grant, which as been contracted for by the Directors of the present Company, together with all the machinery, pit work, pumps, whims, &c., and a new grant for twenty-one bears has been obtained from the lords of Treleigh, communicing from the termination of the existing lease, which documents may be inspected at the office of the ompany, also Grylla' authentic list of the copper ores sold from these mines, thich the Directors presume will be sufficient proof the past, and the fact, that has proprietors of the Great Tolgus Mine (which is immediately adjoining Wheal bearing to the west), are now sinking a shart to take the lode at 300 fathoms sep, is evidence enough of what may be expected in Wheal Montague, which is eye only 70 fathoms deep, and has raised very much more ore than Tolgus did that depth, the lodes or veins being the same.

From the above statements and the concurring testimonials of numerous other wites, as to the great value of these mines, and the advantage that it is expected ill result from efficient working; the Directors feel justified in recommending tent to the favourable attention of the public.

C. F. KIRKMAN, Sec. 14, King's Arms Yard, Coleman Street, London, Dec. 31, 1835.

EW CRINNIS TIN AND COPPER MINING COMPANY .-Capital 20,0004, in 2,000 Shares, of 104 each.—Deposit 34, per Share, and nether Call, unless by consent of the Proprietors at a General Meeting. Applications for Shares remaining unappropriated in the abovenamed concern ill be received by the Secretary, John W. F. Dalton, of whom Prospectuses may had, and any further information obtained.

50 JUN W. F. DALTON, Sec.

CARN GREY TIN MINING COMPANY.

WIE SHAREHOLDERS are hereby reminded that the Call of £1 per share became due on the let inst., and if not paid on or before the 18th, the res become furfeited for the benefit of the Company. Line-street, sth January, 1836. JOHN W. F. DALTON. Sec.

WHEAL GILBERT TIN AND COPPER MINING COMPANY

Capital #15,000, in 6,000 Shares, of #2:10s. each. Deposit #2: per MANGING COMPANY.

John P. Magor, Esq., Chairman.

Mr. Baynard,
Mr. Rede,
Mr. Conn.

Mansers—Messrs. Glyn, Halifax, Mills, and Co., London.

Messrs. Magor. Turner, and Magor, Truro.

The sets belonging to this Coupany are Wheal Gilbert, Nanjenkia, and Trescow, thate in the parishes of St. Erth and Breage, in the County of Cornwall.

Applications for Shares may be made to Messrs. John and Henry Hore, 18, optiball Court, Throgunorton Street, London; to Mr. Grylls, Ticketing Paper dies, Resiruth; or to Messrs. W. Trenery and Son, Mining Office, of the same isce, for a few days, (if by letter, post paid), of whom prospectuses may be obtained.

January 6, 1336.

TO FOUNDERS and ENGINEERS.—The Directors of the SOUTH POLGODIN TIN and COPPER MINING COMPANY are ready to receive TENDERS for a STEAM ENGINE of Thirdy-sis lead Cylinder, to be defivered on the Mine, near St. AUSTLE. In the county of Cornwall, and to be exercted by the Company's Engineer. Specification and other particulars may be had at the Differ of the County, and tenders will be received till the list day of January. hers will be received till the 21st day of January.

R. N. PADBON, Sec.

Just published, price 2r. 6d.

THE WALLS-END MINER. By James Everett, Author of the

VALUABLE SHARES IN SOUTH ROSKEAR COPPER MINE, FOR SALE, NEAR CAMBORNE, CORNWALL

TO be peremptority sold by Auction, THREE FIFTY-EIGHT PARTS or SHARES, of and in all that very valuable and most productive Copper line, called or known by the game of South Roskers, situate in the parish of maleoner, in the country of Committal, and of and in all creations, buildings, tools, agines, whims, hibsies, ropes, and other machinery on the said mine. For sale herrof an auction will be held at Antirew's Hotel, in Reducth, in the country or nuwell, on Friday, the 19th day of January next, at a o'clock in the afternoon. For viewing the said mine apply thereon, and any further information respecting a mine may be obtained on application to the parser thereof, or to Mr. Origito-gradient and the country of the co

EDWARD SMALLWOOD, Sec. 7, Angel-court, Throgmorton-street, Doc. 31, 1835

ished, in 12mo, with Engravings and Wood-cuts, price 7s. 6d. cloth THE STEAM-ENGINE FAMILIABLY EXPLAINED and LUSTRATED, with its application to the Arts and Manufactures, to I gation and Railreads; with Plain Maxims for the guidance of Railway Spetors. Fifth edition, considerably enlarged.

Printed for John Taylor, Bookseller and Publisher to the University of Lou Upper Gower-street.

Will be ready for Sale early in January Dedicated to the Chemical Professors of the United Kingd me Mahogany Chest, 6/. 6s In a hands

In a handsome Mahogany Chest, 6t. 6s.

NEW CHEMICAL CABINET, or Amateur's Laboratory (by

R. B. Ede, Her Majesty's Appointed Chemist, comprising an organized

ction of 130 Chemical Tests, Re-Agents, and best contrived modern Appara
eaclulated for the Student, the Proficient, the Druggist, the Dyer, the Dry
r, the Physician, the Manufacturer, the Mineralogist, and the Amateur, and

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ting Geological inquiries; in a neat japamed case only 7½ by 3½ inches,

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et of Gisle.—May be seen at many, and procured of all the Agents for his well

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CHEMICAL PORTABLE LABORATORY,

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containing above 90 Tests, Re-Agents, Blowpipes, and Appropriate Apparatus, price 11. 11z. 5d., or with stoppered bottles, French Polished Cabinet, Lock and Key, Two Gillicas, and Williams and Haydon, Aldermanbury.

ROYAL POLBEROU CONSOLS MINING COMPANY.

A T a MEETING held at the GEORGE and VULTURE TAVERN, A T a MEETING held at the GEORGIS and VOLTURE TAVE
St. Michael's Alley, Cornhill, on Wednesday, the 36th of December, 18
W. K. DEHANY, Esq. in the Chair;
The Report of the Directors having been read, the following resolutions carried unanimously:
Resolved that the Report of the Directors be approved and published, and oprinted for distribution among the Shareholders, to be had on application to

ctary.

at a Committee of Shareholders be named to investigate the accounts pending
een Mr. Carne and the Poliberon Company, that it may be empowered to call
vidence in such manner as it may deem necessary for the purposes of the ingation, and that it report the result; also their opinion as to the costs incurred
e Chancery proceedings hitherto, and the apportionment of any, and mode of
ent thereof, and generally their opinion as to the estimants of all the diswhich have hitherto unfortunately existed between the late Director and the

putes which have hitherto unfortunately existed between the late Director and the Company.

That it is the opinion of this meeting, that Mr. Carne be required to give up the balance in his hands, or under his controul, and also that he be required to give up the copper grant, now in his possession, and to execute what may be necessary to render it effectual to the Company.

That whether Mr. Carne accede to, or refuse the aforesaid requisitions, the Committee be nevertheless required to proceed to the accomplishment of the object for which it is constituted.

Resolved, That the Committee consist of the following gentlemen:—Mr. Vigors, Chairman, Mr. Hutchinson, Mr. Flentoff, Mr. B. W. Rew, Mr. Geo. Wheelhouse, and that three should make a quorum.

Resolved, That a Meeting be advertised forthwith, agreeably to the deed of regulation, for the purpose of appointing a third Director, and for proposing an increase of a certain number of shares.

Resolved, That the thanks of this Meeting be given to the Chairman for his impartial conduct in the Chair—Carried unanimously.

WHEALS HARMONY AND MONTAGAL CONSOLIDATED COPPER AND TIN MINING COMPANY.

THE SHARES in this Company will be appropriated on MONDAY
NEXT, the 11th instant.
By order,
C. F. KIRKMAN, Secretary.
18, King's Arms-yard, Coleman-street, January 8, 1836.

ECONOMY OF STEAM POWER.

To the Editor of the Mining Journal.

To the Editor of the Mining Journal.

Sir,—From a letter signed, "A Friend to scientific enquiry," quoted from a Glasgow paper, in a late number of the Mining Journal, it appears that the nature of the improvements made within the last few years in the steam-engines employed in the mines of Cornwall, is not very perfectly understood north of the Tweed, and as I have reason to believe that similar misapprehension exists on this subject, in latitudes much further south, I beg, through the medium of the Mining Journal, to correct the errors into which "A Friend to scientific enquiry" appears to have fallen, in common, probably, with many others who may not have had an opportunity of actually inspecting the engines now used in Cornwall. As the subject has latterly begun to attract the general attention it so well deserves, it is evidently of much importance that the nature of the recent improvements in question should be well understood, in order that their practicability, or rather expediency, under different local circumstances, should be properly appreciated.

The writer alluded to appears to consider that the expansive working of high pressure steam, constitutes the saily improvement by which the expenditure of fuel is so greatly economised in the Cornish engines. He, therefore, very naturally states that considerable power is lost in obtaining this advantage. To a certain and limited extent this may be true, but the improvements in question consist, in great measure, of other arroangements, against which no such objection can be urged, and from which, therefore, unmixed benefit is derived, as I shall presently endeavour to show.

The writer appears also to adopt, to the full extent, Mr. Woolf's

other arrangements, against which no such objection can be urged, and from which, therefore, unmixed benefit is derived, as I shall presently endeavour to show.

The writer appears also to adopt, to the full extent, Mr. Woolf's theory of the expansive power of steam of great elasticity, which, however, I believe is now very generally considered as quite untenable, and founded on erroneous views of the subject; indeed, I some years ago witnessed experiments which appeared most decisively to prove its fallacy. Now, although the expansive working of high pressure steam in the usanner introduced by Mr. Woolf, is undoubtedly a very important feature in the Cornish steam-engines, in their present improved state, their superior excellence and economy, as I before stated, is by no means to be attributed to this source only, as several other causes greatly contribute towards it. These causes are the following:—Ist, An improved construction of holiers, by which the generation of steam is more rapidly and more perfectly effected. 2nd, In allowing a short interval between each stroke, by which means the condensation of the steam is more perfectly accomplished. 3rd, (Perhaps the most important feature,) the prevention, to a very great extent, of the usual radiation of heat from those parts of the engine through which the steam passes, by the application of a proper casing composed of substances known to be very imperfect conductors of eaturie. In this casing the booler, steam-pipes, and cylinder, are, of course, carefully enveloped, 4th, The great care and attention used in working the engines; all parties concerned being stimulated to exertion by the admirable system of publishing regular monthly returns of the duty, &c. of all the engines working in the county.

of publishing regular monthly returns of the duty, &c. of all the engines working in the county.

On the 3rd of these causes, or the application of easing, I lay much stress, both on account of its actual importance, and also the case and small expenses with which it may in all cases be applied to rangines, slithough not originally constructed with this intention. It appears, indeed, from experiment, that by this simple alteration (or rather addition) only, that the duty of an engine may be nearly doubled, or, in other words, its expenditure of fuel reduced one-half, without any diminution of its power,—a fact well deserving of the attention of those who are concerned in the use of steam-engines, whether in places where coal is expensive or not.

who are concerned in the use of steam-engines, whether in places where eval is expensive or not.

"A Friend to scientific enquiry," appears also to suppose that the engines now used in Cornwall, are constructed with two cylinders, in the manner introduced by Woolf—no engines of this kind have been employed there, however, for many years; all those now working in the county being impelled by steam acting expansively in a ringle cylinder, as first proposed by Watt, although of course of great elasticity, in accordance with Woolf's great and acknowledged improvement.

As further information will, no doubt, be sought by many of your readers, I beg to refer them to two or three of the most valuable articles which have appeared on this very interesting and important subject. These are principally I believe the following:—Papers on the duty and recent

of Mining and Philosophical Magazine, and re of the Mining Review, and an article by Mr. 5th Number of the same work, in which be as and satisfactory analysis of the relative value

Number of the Monny decision, and an article of Mr. Elijah of in the 6th Number of the same work, in which be furnishing enious and satisfactory analysis of the relative value assignation of the improvements in question.

"A Friend to scientific enquiry" doubts how far it would be to adopt these improvements in the neighbourhood of Glasgo, coal is abundant. As the application of them of course involedgree of expense, this is strictly a matter of calculation, as opinion; but, when the expenditure of fuel can be reduced (which I am convinced in many cases might be done,) by the application of casing in the manner before noticed, and without of power, there is, I think, good reason for supposing that this ment, at least, would be desirable in all situations, however do now the supposing that this ment, at least, would be desirable in all situations, however do now the supposing that this ment, at least, would be desirable in all situations, however do now the engines used in our coal mine districts, must be concreted more barbarrous (unless, intermediate the engines used in our coal mine districts, must be concreted more barbarrous (unless, intermediate the engines in the mines of Staffordshire, and at districts. The boilers are generally made of somewhat spheric engine together with the steam-pipes, stand detached from the engines and quite exposed to the air, having no roof or covering that it is evident what an immense radiation of heat must take place these enormous surfaces, exposed as they are to all atmospherical I have never ascertained the temperature of the outside of these they at thermometer; the surface is, however, too hot to be approach by a thermometer; the surface is, however, too hot to be approach by a thermometer; the surface is, however, too hot to be approach the hand, and as the exterior can only differ from the interior frigeration (certainly, under these circumstances, a rapid proor metals, that it may even approach 200 degrees.

The following memoranda, made some time time ago in Comments

ever, to show the extraordinary success with which casing is applied the Cornish engineers, an improvement perhaps of greater gainterest than any other, from its extreme simplicity, and the ease which it may be applied in all cases where economy of fuel is desired in the contract of th

IRISH MINES.

To the Editor of the Mining Journal.

Sin.—In noticing my communication relating to the County of Willow Mining districts published in your Journal of the 12th of Decemyou remark that "The Mines of Ireland are descriving the attents the Capitalist."—I would be happy to see this remark placed in ay minent part of each future publication of the Mining Journal prima large letters, in the hope that it might attract the eye of some of it wealthy persons who are expending such appropria. the Capitalist."—I would be happy to see this remark placed in a minent part of each future publication of the Mining Journal prints wealthy persons who are expending such enormous sums in foreignaculations, instead of turning their attention homewards to a spe favoured by nature as Ireland certainly is, for whether we look to mineral wealth, her agricultural capabilities, her commercial advants her unemployed population, or to the power her rivers and streams sent for manufactories, we every where find evidence, that Ireland' cources are great, that they could be rendered profitable, that they "deserving the attention of the capitalist." It may be asked who the present who have a knowledge of where or how money cap profitably expended in that country put themselves forward, and pointing out the way open a road of communication for English capitalist, Mr. Editor, I trust will be done, and should the effort prove a cessful, should the attention of the enterprizing capitalists of England drawn through your columns to consider the subject of Ireland's resources, she will owe the Mining Journal a greater debt of gratiit than was ever due to any Journal as yet published.

That Ireland contains much mineral wealth is a fact which the persons who have visited her mining districts have had sufficient evide of; it may, however, be interesting to your readers to know metallic substances found in that country. They are as follows:—

Gold Copper Lead Tin Manganese Antimos, Silver Iron Zinc Tungsten Arsenic

There are several coal formations, slate quarries of excellent qual and markle of most beautiful descriptions. It is not, I believe, metallic substances found in that country. They are as follows:—

Gold Copper Lead Tin Manganese Antimos, slate quarries of excellent qual and markle of most beautiful descriptions of the gold Copper them, when the Government abandoned the mines in the passe for several years past, ever since the withdrawal of the guard placed prevent them, when the Government abandoned the mines in the pa

them working.

them working.

In commencing my observations on Ireland's mineral resources we the gold mines, I do not mean they should be considered by capitals as the most prominent, for although they are a subject for caquit should they ever prove very valuable to government or other person they could not afford in any comparison employment equal to what be copper, lead and coal mines can, it is therefore to the subject of the I would draw attention; as however I have taken up a full share of yettime and space aircady, I will conclude by stating what the saler Swansea have and will corroborate. That the copper mines in the count of Wicklow, Waterford and Cerk, are rapidly increasing in important to, the country, as they are evidence of what has been the result of a jubicious outlay of capital. Hoping I shall have a similar opportunity is wishing success to the Mining Journal this day twelve month.

I am, Mr. Editor, yours, &c. ADVENTURES.

1

Rail-roads.—The Belge states that the offers of the Brussels Bank for the iron rail-road from Brussels to Paris have been accepted and the branches upon the French territory will ere long be undertaken by French companies. The Vulenciennes and Lille branches taken by French con will join at Cambray.

will join at Cambray.

Results of Accident.—Lucretius attributes to accident, the disevery of the fusion of the metals: a person in touching a she fish observed that it emitted a purple liquid as a dye, hence the Tyrian purple; elay is observed to harden in the fire, and hence the invention of bricks, which could hardly fail ultimately to less to the discovery of porcelain; even glass, the most perfect and beautiful of those manufactures called chemical, is said to have been discovered by accident.—T. I. R. discovered by accident.-T. I. B.

BAILWAYS

with our promise we this week return to the subject of Railways; and in compliance with the wattention to the gradients of the different lines. We select for our present number those of

THE BRIGHTON RAILWAYS.

ortions of the Lines as are understood to be finally adopted.

н					G	rad	se	nte	of suc	h po
	Ma	rden a	nd O	xie	roydon to 4—the B adoned or	rig	ħti	ena ena	portion	M
r	43	rises	. 9	3	per mile	or	1	in	567	. 3
ī	12	rises	34	6	do	or	1	in		
li	60	rises	52	0	do.	or				1
li	15	rises	34	6	do.	OF		in		
ı	55	rises	16	0	do.	or				
7	1	rises	15	6	do.	or	1	in		
'n	68	falls	16	2	do.	or		in		
ì	52	falls	52	0	do.	or	1	in		
7	0	falls	16	9	do.	or	1	in		
ŝ	0	falls	10	5	do.	or	-	in		
1	0	falls	2	0	do.	or	1		2640	1 3
1	40	rises	8	0	do.	or			660	1
9	40	falls	16	9	do.	or		in		9
3	0	falls	5	0	do.	or			1056	1 3
4	0	rises	2	9	do.	or			1920	
1	0	fails	3	0	do.	or	1	in	1426	0.1
3	0	level								1
	0	rises	9	1	do.	or	1		587	
9	65	falls	2	6	do.	or	1	in	2113	1
3	40	rises	16	0	do.	or	1	in		1
5	40	Tises	14	0	do.	or	1	in	380	
1	42	falls	55	9	do.	or	1	in	94	-
1	62	falls	17	0	do.	or	1	in	310	54
5	54	level								-
0	76	falls	32	0	do.	or	1	in	160%	
	45									

10 Add from Tooley Street to Croydon,
by the Greenwich and Croydon
Railways.
10 Total distance from Tooley Street to

deg. Fal. deg. Fal. were the were other Dover.

nmary of the above Gradients.

Summary of the above Grauents.

Chs.

39 Level or equivalent to level (upon which the locomotive engines will exert their full force) the rise per mile not exceeding 5 feet.

66 Inclination of 14 to 17 feet per mile, in ascending which the engines lose about 40 per cent of their velocity.

3 Inclination of 8 to 10 feet per mile, a loss in the ascent of about 23 per cent. of the velocity.

23 Inclination of 33 to 35 feet per mile.

74 Ditto of 52 to 56 feet per mile.

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o a spot look to ladvanta • Tunnell 221 chains under the old London stream; Ireland's hat they ked why oney can ard, and lish capit

| Arch of 34 feet over the London Road.
| Arch of 34 feet over the London Road.
| Independently of the rise of the country
| between Tooley Street and Croydon, this line
| seconds 214 feet more in the first 74 miles after
| Groydon. The total summit therefore which it Marden Park, is about 340 feet.

§ Tunnell I mile, 42½ chains.

I Groadham Grea.

Quay at Dover.

Nine Elms near Vauxhall, thence by way of the Southampton Railway, continuing by way of Dorking, Capel, Horsham and Shoreham.

Ms. Cas. feet in. foot. feet to the feet in foot. feet in rises 12 9 662 383 338 568 514 405 rises 8 0 do do do do do do do rises 15 falls 9 falls 9 falls 12

14 29 77 14 66 12 54 29 79 31 1221 rises 4 4 falls 16 0 falls 4 10 339 4 10 level 8 9 do or 1 in 608 16 14 48 76 or 1 in 1034 or 1 in 4587 or 1 in 473† falls falls do do do

Length of this line of Railway from 9 ine Elms to Brighton.

Summary of the above Gradients.

Level or equivalent to level, upon which the locomotive engines will exert their full power the rise per mile not exceeding 5 feet. Inclination of 8 to 11 feet per mile, in ascending which the engines

lose about 23 per cent of their velocity.
Inclination of 12 to 16 feet per mile,

30 73 in ascending which, the engines lose from 30 to 40 per cent of their velocity. 55 9

 The summit of this line appears to be about 240 feet, and is reached in 244 miles from Nine Elms, out of which distance about from Nine Lims, out of which distance about 144 miles rise on the average more than 13 feet 6 inches per mile. This line must therefore be worked either by assistant engines throughout,

N.B. 80 chains, of 22 yards each, make I mile

							foot	t.	feet.
					per mile	or	1	in	100
					do.				
1	60		leve	1.	tunnel a	t N	fee	the	im.
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6	60	rises	4	- 9	per mile	OF	1	in	1078
1	75	falls	43	0	do.	or	1	in	120
5	0		leve	L	tunnel of	6	ch	ain	8.
2	36	falls	38	4	per mile	or	- 1	in	139
5	40		4	6	do.	or	1	in	1200
9	0		2	4	do.	or	1	in	2200
. 5	5	rises	5	6	do.	or	1	in	9601
46	46								

0 add from Tooley-street to Croydon by the Greenwich and Croydon rail-11 57 46 total length of this railway from Too-

street to Brighton

Summary of the above Gradients.

Ms. Chs.
36 15 level, or equivalent to level, upon which

30 1 level, or equivalent to level, upon which the locomotive engines will exert their full power, the rise per mile not exceeding 5 feet 6 inches.

3 40 inclination of 25 feet per mile, upon which the engine loses so much power that an assistant engine must be used.

6 71 inclination of 38 to 52 feet per mile, upon which the paristant engine must

upon which an assistant engine must be constantly used.

46 46

• The summit of this line above Croydon appears to be 145 ft., and is reached mainly by one inclined plane of 2½ miles (rising 52 ft. per mile) shortly after leaving Croydon. The summit is at Merstham. In returning from Brighton, the total rise from the beach at Hove to the Merstham summit (39 miles) is 290 feet, which, as on the journey down, is surmounted by short planes, inclining from 38 to 43 feet per mile, as on the Liverpool and Manchester and Great Western Railway. The first summit on this line is, of course, the town of Croydon, which is about 135 or 140 feet above the Greenwich Road. † Brighton.

appear to be especially incumbent on your Board to consider whether Parliament will consent to pass an Act by which much of the traffic will be diverted from the turnpike roads to your line of railway, which offers but a single terminus at Nine Elms, and which, in communicating thus remotely with many parts of the west end of Town, cannot be considered as affording, even in that one respect, any or suitable, complete accommodation. accommodation.

accommodation.

In proposing a meeting of the two committees, the Directors of this Company are impressed with the belief, that although the difficulties arising from various causes may be made less upon one of the western lines, and most probably upon their own than upon that selected by your Board, yet that none of the usual obstacles attendant upon carrying a Railway Bill through Parliament ought to be overlooked.

Although there are no interests consected with public works of any

Railway Bill through Parliament ought to be overlooked.

Although there are no interests connected with public works of any note on the line to Brighton to be encountered, such as canals or river communications, yet the question of principle, of the expediency in fact, of authorizing any line of railway to Brighton, may be raised against any perty, and although it is evident that opposition founded on this basis will be ultimately unsuccessful, still it is clear, that union of both interests against this or any other opposition is the safest policy, and that much of the vexation, expence, and delay which will be encountered by both companies, when in collision, may be avoided by a junction.

Among all the reasons, indeed, which have been at any time deduced to prove the policy of union between two companies having the same ultimate object, the most cogeat appears to be, that by union the efforts and connections of both are brought to bear upon any public opposition, which (although vexatious) may be scarcely less formidable, and which is therefore in all cases, more effectually encountered and discouraged by an union of forces against it.

If, on the contrary, the two companies approach Parliament in a state.

an union of forces against it.

If, on the contrary, the two companies approach Parliament in a state of collision, the private connections of both are not only divided, but are also frequently factiously opposed to each other; the public opposition which may probably be raised upon the ground (however futile) of principle, and expediency, and which is likely to have some force when brought to bear upon a line of country where great prejudices may exist, and where there is no experience of the benefits arising from rail-reads, gains a force precisely in proportion to the weakness of the applicants, and the result to these companies, as in many similar instances of impolitic collision, may very possibly be failure in the object, accompanied by much anxiety and loss of time, and by a waste of means exactly regulated by the duration and obstinacy of the context.

With regard to the interests of the shareholders by which the directors

exactly regulated by the duration and obstinacy of the contest.

With regard to the interests of the shareholders by which the directors of both companies are, without doubt, equally animated, they are obviously as follow: That the prospect of obtaining the sanction of Parliament should be secured, if possible, in the ensuing session, by a continuo, instead of being postponed, and therefore lost by division. That the expences necessarily incurred, should be as moderate as possible, instead of being augmented incalculably by a collision of the parties. That a line of country be selected for the railway, which shall unite all the advantages practicable for a railroad between London and Brighton, worked by locomotive engines, together with all possible economy in the outlay of capital; and that these objects, and the success of the application to Parliament, should be ensured as much as possible by electing a line of country to which the owners of land have the smallest objections.

a line of country to which the owners of man wave in objections.

If the result of the proposed meeting between the sub-committees should prove that no arrangement can be effected; if the efforts of both parties must be submitted to the doubtful chances arising from the collision of interests which in that event must take place, the directors of this line of railway request me to assure you, that in carrying into effect the opposition to your board (which must necessarily arise out of their efforts to cerry their own object, and to which they are pledged by their own determination, by their views of ultimate success, and by the interests of shareholders entrusted by them) they will continue to follow the path of open, streamous and persevering opposition, to which alone their habits and duties incline them. Wasters saction may appear to be given by the practices at public elections, unfortunately too

prevalent, and which seem in some cases to have been infused into the various parties to railroad lines, the directors of this company will on no occasion descend to intrigues or misrepresentations, although intended to obstruct a rival party in the preliminary processes of surveying, and applications to landed proprietors. Practices of this kind have never been found of efficacy in the advance of a bill, or in conducting the arguments as to comparative merits before the committees of either House of Parliament.

In reviewing the amount of means at the command of the company,—The directors request me to assure you that their line is supported by a most respectable array of the means required for a contest in Parliament, and that the deposits paid upon their subscribed capital are composed of moderate, but numerous contributions, from asbecribers, who appear to be proportionately indifferent to the ultimate fate of their money provided it be expeaded in a persevering and judicious endeavour to accomplish the object proposed.

And the directors have not forgotten the assertious which have been publicly made, that the subscriptions to your line have been contributed in large amounts by persons of great wealth and respectability.

However powerful, and available in case of a union of interests between the companies, the latter undoubtedly are, the directors of this line calculate with confidence that the larger contributions made by persons of great individual means are in almost all cases accompanied, if possible, by increased care and circums pection in the use of them, and by a very proper disinclination to expend such means upon objects which, if not impracticable, may be at all events liable to strong and possibly successful objections,

I am, Sir, your obedient humble servant.

I am, Sir, your obedient humble servant.
R. S. YOUNG, SECRETARY.
By order of the Directors of the London Brighton Railway,
the line surveyed by Mr. Gibbs.

BIRMINGHAM AND DERBY RAILWAY. PUBLIC MEETING AT TANWORTH.

On the 15th ult., pursuant to a requisition to the Bailiffs of Tamworth, a respectable meeting of the inhabitants of that borough and its neighbourhood was held at the Town Hall, for the purpose of expressing their opinion of the projected railway from Birmingham to Derby, passing through Tamworth and Burton-upon-Treat. The Members for the borough, the Right Hon. Sir Robert Peel and the Right Hon. William Yates Peel, and many of the neighbouring landowners were also present; and a deputation from the Directors of the Railway Company, consisting of Henry Smith, Joseph Walker, and William Beale, Esqra, attended from Birmingham.

In moving the first Resolution, the Right Hon. Sir R. Peel spoke to the following effect:

of Henry Smith, Joseph Walker, and William Beale, Esqra, attended from Birmingham.

In moving the first Resolution, the Right Hon. Sir R. Peel spoke to the following effect:—

This resolution, you will perceive, affirms two propositions. Let, That the projected railway will be conducive to the governal welfare of the country; and, 2ndly, that it will tend to the local interests and properity of this town and neighbourhood. Gentlemen, you are far too collightened to render it necessary for me to say anything as to the great utility—nay, the vast importance, of having throughout the kingdom a cheap and rapid mode of communication. I do not hesitate to arow myself favourable to the principle of communication by railways; and on all occasions I shall give my cordial support to such undertakings, provided I am satisfied they will succeed as speculations, and prove a profitable investment of capital to their projectors. It is no reflection on the parties who have originated the undertaking, that their main or primary object is their own individual profit, for it is only by individual gain that the general interest is advanced; and, unless it can be proved to me that the views of profitable investment with which this undertaking is commenced will be realized, any doubts I might entertain of its success would be materially increased; for, in order that it should succeed as a general measure, it must be shown to be profitable to its promoters. I am, gentlemen, favourable to such undertakings, because I believe that our commercial interests are best promoted by a rapid communication, which will, as it were, bring together remote parts of the empire, and unite all our great commercial towns and agricultural districts. It is absolutely essential, in order to maintain our commercial superiority, owe the rest of the world, that the most favourable means of transit through the country should be adopted: for we are now in a perfectly different position from that in which we were during the late war. At that period nearly all t

superiority, and atruggle successfully against this powerful competition, unless we exert all our energies to bring into operation every improvement which skill and intelligence can devise.

We must not, gentlemen, close our eyes to the fact that allways are now being established on the Continent, and that they exist to a great extent in the United States of America. Nor can we, by any means, preventour artisans and our capital from leaving the country, nor our machinery from being exported, if there should appear elsewhere a fairer prospect of profitable employment. I think, therefore, we are bound to encourage these undertakings in every part of England, whenever we have reasonable grounds for believing they will succeed. I cannot doubt it is for the general interest of the country that they should be established. If by a relivary communication the journey from London to Birmingham can be performed in five hours instead of thirteen, thereby enabling him to go to London, transact his business, and return the same day, the great advantages arising from an rapid a communication must be obvious. Again, whatever improvement in communication must be obvious. Again, whatever improvement in communication must be set of the poor man, in the present state of the poor laws, to astry his labours, perhaps, the only valuable property he possesses, to the best market, and to where it is most wanted, must be a decided advantage not only to him but to the community at large; and it is of great importance to the country—that it is, in fact, indispensably necessary to the maintenance of its present eminence and superiority, that such undertakings should be encouraged. So much for the bearing of the subject upon the general question. I shall now draw your attention more particularly to the effect of the line under discussion upon the interests of this town and neighbourhood. I hold in my hand a map, showing the line of railway from London to Birmingham, and from Birminham, to Liverpool. It comprehends also most of the large town probably aware that a railway is now in process of execution between London and Birmingham, which will probably be completed in about three years. There is also one in execution between Liverpool and Birmingham, which will be completed in about two years. Thus acts of the legislature have already passed which will make Birmingham the centre communication between London, Liverpool, Manchester, and other great manufacturing and commercial districts. There are also bills in contemplation for other railways, which have not as yet received, but which will, in all probability, receive the sanction of the legislature in the enuing session of Parliament. One of these, for which notice has been given, to unite Derby with Leeds, and this railway will immediately pass through, or touch upon, the following important places; i. Chesterfield, with a population of 10,000; Sheffield, 91,000; Barnsley, 10,000; Hundlersfield, 81,000; Ifalina, 100,000; Leeds, 125,000; Wakefield, 24,000; and I am'given to understand that this railway has received very general emouragement, and that there is no probability of any very considerable, and certainly of no successful, opposition to it; and we may, therefore, take it for granted that in the course of next session of Parliament, an act will be obtained for uniting Leeds with Derby by railway communication. There is also another line proposed, to unite Birmingham and Gloucester. At the close, therefore, of the next session of Parliament, there will be a line between Hiraningham and Gloucester, effecting a direct communication to the part of Bratol, and through it, to the West Indies. We shall also find a line connecting Derby with Leeds. Supposing this to be the case, I think, Gentlemen, under the Leeds. Supposing this to be the case, I think, Gentlemen, under the legislature and the case, I think, Gentlemen, under the legislature and legislature and legislature and legislature and legislature and legislature a pleted in about Liverpool and Thus acts of Birmingham, which will probably be com There is also one in execution between

THE BRIGHTON RAILWAYS.

Thich the [With a view of effecting an union between the two Shoreham Lines and the color of the strict of the strict

To the Chairman of the London and Brighton Railway.

To the Chairman of the London and Brighton Raiheay.

The Line surveyed by Mr. Bidder.

The Line surveyed by Mr. Bidder.

Brand Sin,—I am requested by the provisional Directors of the line of placed Brighton Railway surveyed by Mr. Gibbs, to inform you that several at the sterile was have taken place between themselves and the Directors of the of street with Eastern Railway Company, and that although no arrangement for include the two companies, it is understood that the latter have resolved to confine their application to Parliability, point in the ensuing session to the Dover portion of their line. The opplication previously intended to be made by the South Eastern Companies, it is not expense the success of failure of the joint or separate application to Parliable, in any for a line from Oxted to Brighton will therefore very probably be success or failure of the joint or separate application to Parliable, in the sum of the sum of

the companies remaining this year can be united previously to the comtencement of the session. Whatever may be the ultimate decision of
the proposed meeting, whether to unite or not, we feel persuaded that
tour Hoard, as well as our's, believe, that in the projected formation of a
ine of railway to Brighton the considerations may be stated as follows,
the considerations in order to find the best railway line, as the
tentry between London and Brighton. 2.—That it may be considered
and one of what are cailed "the western lines" will be preferred, betouse the difficulties presented by the nature of the country between
condon and the southern coast are least by those routes, the greater
regth being compensated by easier inclinations of the ground, and by
the greater speed of the journey, &c. &c. &c. &.—That in any application
and the southern coast are least by those routes, the greater
the, if not indispensable, to consult public opinion and the wishes and
clinings of the landed proprietors; and that such a line of country should
terefore be selected as will interfere in the smallest possible degree
with the highly ornamental properties for which the country of Surrey is
much distinguished, and to the privacy of which the residents are so
markahly and justly attached. 4.—That the interests of that portion
the public which now visit, and of the incalculably greater portion
the public which now visit, and of the incalculably greater portion
the railway, that the Brighton Railway must have two termini
London; and that it must, in fact, afford to the traveller the choice of
the concepts of the plane of your railway offers one terminus only, viz., the mestern,
Nine Elms, which is at some distance from Vaushall bridge, it would disei-shel-e the nemet

or if by a single engine, it must be of greater weight and power.

circumstances, you cannot entertain a doubt, when you consider the wealth, intelligence, and commercial enterprise of the people of Yorkshire and the North, that they will, by some means or other, effect a communication with Birmingham, and its important adjacent districts, as well as lines. The question, therefore is, in what manner that union is to be effected. The Gentlemen present, who attend from Birmingham on this occasion, propose to accomplish it by uniting Derby with Birmingham, by a railway passing through, or near Burton-upon-Trent and Tamworth. The proposal is, as I apprehend it, that the railway shall pass from Derby to Nether Whitacre, by way of Burton and Tamworth, in one continued line, and that it shall there diverge, one line leading to Birmingham, by way of Yardley, and the other uniting with the London and Birmingham railway, at or near Hampton-in-Arden. Now, Gentlemen, I presume it will be the general opinion of this meeting that to such a proposition, supposing these to be the best lines for effecting the objects contemplated, we ought to give our assent and support. It certainly appears to me, upon a cursory examination of this map, that it is by Tsmworth that a line from Birmingham to Derby, should run. P is in a direct line between the two places, and not only so, but I apprehend that, on account of the valles and the natural levels of the country, it will be found that this line can be executed at considerably less expense than any other. In all probability in regard to distance, a shorter line to London from Derby might be devised, and it is probable that other proposals will be made for connecting Derby with London by way of Nottingham and Leiceater. Supposing this to be the case, it can in no way affect the line between Derby and Birmingham. There can be no doubt that the population of Yorkshire and the North, in conjunction with the other interests concerned, would insist upon a more direct communication with Birmingham and the West of England, then could be offered by way of Notti Maronet.) little doubt that a function with it will be effected near that place. I also think that it will be a great advantage to this town and neighbourhood that such a junction should be effected, and that we should by no means limit the advantages to be gained by us from this railway to Birmingham alone, but that we ought also to have a direct communication with London. My hope is that this will be effected, and that this railway will not only connectus with Birmingham, but also with the London and Birmingham railway, by uniting with it at some point page 14 anython in Arten. near Hampton-in-Arden.

en, I state to you freely my belief is, that this undertaking is Gentlemen, I state to you freely my belief is, that this undertaking is likely to succeed, but it would have been more satisfactory to me to have had longer time to have considered it, and to have seen the calculations upon which its success depends. I did not see the plan of this railway the about six weeks ago; and I am now speaking without any accurate details; but, arguing from a general impression, and a strong opinion I have in favour of railways generally, and looking at the great interests concerned between Leeds and Gloucester, I am inclined to think that it will necessed and that the secont property is not the secont property of Parliament; but concerned between Leeds and Gloucester, I am inclined to think that it will succeed, and that it will meet the encouragement of Parliament; but I will reserve to myself, and I recommend you to reserve also, a final decision, until you see the calculations that are essential to it. Gentlemen, I most cordially hope this project will succeed. I shall give it my assent as a landed proprietor, and I shall support it in my place in Parliament, for it does not appear to me to be one of those speculations with which at present the newspapers so much abound. As regards the local interests of Tamworth, we have the best guarantee in the character of the synthesis. local interests of Tamworth, we have the best guarantee in the character of the gentlemen who are conducting the undertaking: they are persuaded that this is the line which will be of most advantage to Birmingham, and which can be effected at the least expense, and I confess that, what I have heard from Mr. Smith still more recommends it to me. I tell these gentlemen we feel deeply interested in the welfare and prosperity of Birmingham; it is the great metropolis near which we live, and there is nothing which can tend to produce an increased demand for Birmingham manufactures, and promote the welfare of Birmingham, which must not, at the same time, prove advantageous to us, and increase the prosperity of Tamworth. If we can establish this proposed communication with Birmingham, it will bring us within half an hour of each other, and promote the mutual good understanding and sympathy which exists.

which exists.

I have now, Gentlemen, stated to you the reasons which will induce me to give my assistance to this measure, and I again repeat that it is my intention to give it my strenuous support. I do so, believing it will conduce to the prosperity of this town and neighbourhood, in which I take the deepest interest. Mr. Smith has justly remarked that Birmingham has risen to importance from its central position, and from the means of communication which it possesses with other large and important districts; and I hope the gentlemen who originated, and who will have to easy the sallway into according will be a second to the interest we take in carry this railway into execution, will perceive that the interest we take in it, must depend upon the facilities afforded to us, in making use of it as a direct and convenient communication from this town. The netwantages of railways do not consist so much in the carriage of heavy goods, as in the conveyance of passengers, and of the lighter articles of manufacture, in which they are of infinite importance. If, therefore, we are to have a railway pass through Tamworth, and the only advantage we are to derive from it, is to be the pleasure of seeing passengers comfortably travelling along it at the rate of thirty miles an hour, the benefit to us, indeed, will be but very small, not much greater than we should derive from seeing a balloon pass over our heads; therefore, when we say we are willing to support this line of railway, it is with this necessary reserve—that the support this line of railway, it is with this necessary reserve—that the originators of it shall do everything that is in their power for the benefit and convenience of this town and neighbourhood, and with the understanding that we are to have a station at Tamworth. Where it may be cannot now be determined, but I hope it will be in the most advantageous place for the inhabitants, without regard to any personal considerations. I trust a Committee will be appointed to confer with the undertakers of the measure, and after the fullest discussion and mature consideration, I hope that situation will be adopted which will give the greatest facility for convenience to the inhabitants of Tamworth, and the surrounding places.

I have also the interests of the agriculturists of the neighbourhoad

for convenience to the inhabitants of Tamworth, and the surrounding places.

I hope also the interests of the agriculturists of the neighbourhood will be consulted. I know we shall derive advantage from having a rapid transit to the Birmingham market, by which we can, in half an hour perhaps, deliver our provisions in that town; but these advantages will materially depend upon the facilities afforded to the farmers to get their produce upon the line of railway, and although I am aware great inconvenience would arise from a multiplication of the principal stations. tions, I hope subordinate stations will be made on the line, for the pur pose of effecting this object, without obliging the farmers to expry their produce any long distances to the station-houses. I em aware that doubts have been expressed by the agriculturists with respect to the advantages of railroads to them, but I confess I do not share in these doubts; I do not think we can do better for the agriculturists than to vantages of railroads to them, but I conless I do not share in these doubts; I do not think we can do better for the agriculturists than to open for them new markets by the proposed communications with the large towns. It is thought by some there will not be so great a demand for horses, and that, consequently, a decrease in the consumption of corn will ensue. In my opinion, these apprehensions need not be entertained. The same objections were felt with respect to the canals, when they were originated, but they have proved groundless. The general prosperity of the country will be increased by railways, as it has been by causals, and, consequently, there will be a general increase of traffic, and the demand for horses will not, on the whole, be decreased; of course, on the present main times of coach travelling, fewer coaches may be employed, but the traffic in lateral directions will be increased by the general improvement. When it was proposed in the House of Commons to have a steam-boat between London and Calais, the innexe-pers on the line of road between London and Dover, feared they should be ruised, and petitioned against the measure; but every one knows that, since the establishment of steam-boats, there is a far greater traffic on that road than there was before; such will, I believe, be the case with resilways. In my opinion railways will increase in number, and with them, not only the prosperity of the manufacturing, but also of the agricultural interest. agricultural interest.

GREAT NORTHERN RAILHOAD.—Great progress has been made during this last week in the survey from near Croft to York. It appears from the report of the chief engineer when at Northallerton on Saturday week, that the railroad will pass from Croft in a straight line across the Hutton Bast the railroad will pass from Croft in a straight line across the Hutton Bonville estate, near to the hall, and through the old Roman encampment, near to the foot of the Casile hill, about 400 yards west of Northallerton, from thence through the estate of Samuel Crompton, Esq., M. P. at Wood end, passing near to Carltonmintet, about a mile west of Thirsk, to Pilmore, thence passing Raskelf, about 1200 yards to the west, and keeping a straight line forward towards York, where it will terminate near to Micklegate bar.—Newcostle Courant.

STANHOPE AND TYNE RAILWAY COMPANY.

In the Mining Journal of the 12th ult., some observations were incidentally introduced in a letter of our correspondent C. C. on the "Coal trade," on the subject of this company, stating that the shares were at a discount of 20 per cent., the accuracy of which statement we had at the time no reason to doubt. Subsequently, however, in consequence of a representation made to us that the shares had never been sold under par, such assurance having been given by gentlemen on whose verneity we had. And have every reason to believe implicit confidence in the letter of the the letter par, such assurance having been given by gentlemen on whose verneity we had, and have every reason to believe implicit confidence is to be placed, we availed ourselves of the earliest opportunity of drawing the attention of our readers to the circumstance. This, it appears, has not been deemed satisfactory, by the parties complaining of the insertion of C. C.'s remark, one cause assigned being that the explanation did not occupy a sufficiently conspicuous situation, although introduced under "Notice to Correspondents." We therefore on the present occasion dgain insert our remarks; and trust, having selected a position in the paper, which cannot be considered otherwise than numment. that dgain insert our remarks; and trust, having selected a position in the paper which cannot be considered otherwise than prominent, that the parties interested will be satisfied with our having done all in our power to correct an unintentional error, assuming as we do, that the last representations made to us are correct as to the price of the shares. We have, from personal respect to the parties, rather traversed out of the course we had laid down on the first publication of the Mining Journal, and which we have invariably pursued with regard to the communications of correspondents, and have now only to observe, that we shall not deep it pressure rights to treasure.

shall not deem it necessary further to trespass, either on the attention of our readers, or the occupation of our columns in reverting to the

The following are the observations referred to :- "Stanhope and The following are the observations referred to:—"Standope and Tyne Railway Company.—In a preceding number we inserted a letter of C. C. on the Coal Trade, in which our correspondent inserted that the shares of the company were at £20 per cent. discount; we have since been informed on good authority that such is not the case, the shares never having been under par. We have put ourselves in communication with our correspondent; but in the meantime feel it due to the company to note the circumstance."

South Durham Railway.— From the prospectus, it would appear that this undertaking holds out the prospect of the returns on the capital being more than 15t, per cent. The plan, section, and book of reference have been ledged, and it is intended that application shall be made in the ensuing session of parliament for an act. The proprietors on the line of road, are given to understand, have given their assent to the measure, so that we are given to understand, have given their assent to the measure, so that there is little or no chance of opposition. It is contemplated that the line will be finished, and in active operation in ten months. The result will prove the accuracy of the estimates, and the abilities of the engineer and persons employed, and we hope to congratulate them on the result being in accordance with their sanguine, and we will hope well founded expecta-

ACCIDENTS IN MINES.—THE DAVY LAMP.

Evidence of Jonathan Pereira, Esq., Lecturer on Chemistry, &c., given before the Parliamentary Commissioners appointed to report on Acci-dents in Mines. This evidence will be found to corroborate that of Dr. Birkbeck, and in direct opposition to that of Mr. Buddle. From the able skill of the experimenter and his high scientific attainments, his opinions will no doubt be perused with particular interest and res-

What is your occupation!—I am by profession a surgeon; and have been engaged for some years in the delivery of lectures on chemistry in the medical school of the London Hospital, and in the Aldersgate School medicine.

Has your attention been at all directed to the accidents which have

taken place in the mines of this kingdom !- Only in reference to the lamp

Case you made any experiments on the lamps?—Yes; I have made considerable number of experiments during the last three or four

On the lamp invented by Sir Hamphrey Davy !-On his lamp, and also

On the lamp invented by Sir Humphrey Davy!—On his lamp, and also on an improvement of it.

What is your opinion of Sir Humphrey Davy's lamp, as a security against the effects of carburetted hydrogen gas! I do not think it is a security, because the lamp will allow the passage of the flame through

Will it allow the passage of the flame when suspended in the carburetted hydrogen gas, without motion?—I have never seen the flame pass
through the wire gauze when the lamp was at rest, and the gas not in
motion. Under such circumstances the lamp may be safe, at least I have

never seen it explode. Have you seen it explode under other circumstances !- Repeatedly, when or the gas has been in motion. I was accustomed for years to Davy lamp in lecture, and by certain experiments to demonstrate, as I then thought they did, the security of the lamp. as I then thought they did, the security of the lamp. The experiments are those usually shown in the lecture room. I am now convinced they are fallacious. There are three methods mentioned by Sir Humphrey Davy, of proving the safety of the lamp: the first method (mentioned at pp. 14, 15 of his work, on the "Safety-lamp for Coal-miners,") is to plunge the lamp into an explosive mixture contained in a large vessel; the second method (mentioned at p. 16 of Davy's before mentioned work,) is to have the lamp in a large class receiver through which is to hang the lamp in a large glass receiver, through which a current o is to hang the lamp in a large glass receiver, through which a current of explosive gas is made to pass; the third method adopted by Sir Humphrey Davy, was tried on a "blower" in a coal mine. He held the lamp in this blower, and though the wire gauze soon became red hot, the flame did not pass until the gauze had reached a welding heat, and began to burn. (This is mentioned at p. 138 of his work.) Of course lecturers in London have no means of exposing it to a blower, and therefore they have wonld to mean a class room experiment, the two first mentioned means. usually employed, as class-room experiments, the two first mentioned methods of trying the lamp. I have never found the lamp explode by either of those methods; but, as I have already remarked, they are fallacious

experiments. You think the lamp, if exposed to a current of explosive gas, decidedly unsafe!—Yes, certainly. I will not say it is absolutely safe when the lamp is not moved, and where there is no current; but under such circumstances, I have never seen it explode. I may perhaps mention in what way I became convinced of the insecurity of it. Mr. Roberts (who I believe has been examined by this Committee) has been employed by me for some years as a manufacturer, &c. of lamps; and on several occasions he told we that he was certain the Davy lamp was not if a contractor. me that he was certain the Davy lamp was not "a safety lamp." Al-though I was aware that Roberts had particularly directed his attention to this subject, and from having been a working miner for many years, must have been practically well acquainted with the lamp, yet as accustomed to the niceties requisite in conducting chemical experiments; as I and many others had tried the lamp, and as far as I then knew, it had always been found a security against the passage of flame, I confess I thought Roberts was labouring under an error. At his urrent and re peated request, I ultimately consented to attend at Upton and Roberts's manufactory, to see him prove, if he could, the insecurity of the lamp, though fully persuaded that I should be able to find out some fallacy in his experiments. In a few minutes he showed me that flame might be his experiments. In a new minutes he showed me that the might be made to pass through a Davy-lamp; but thinking that the lamp he employed might not be perfect, I sent for one which I had repeatedly tried, and which I knew to be a perfect instrument. The flame passed through this also. Subsequently I tried the Davy lamps of some friends, and in every case they allowed the passage of the flame. I then undertook a series of experiments, the result of which is a firm conviction of the inseseries of experiments, the result of which is a firm conviction of the inse-curity of the Davy-lamp when in motion, or when placed in a current of explosive gas. I think we may easily comprehend why the flame does not pass when both the gas and the lamp are at rest: it depends on two cir-cumstances, namely, the less heat developed, in consequence of less gas burning; and secondly, the carbonic acid formed not being got rid of, checks the passage of the flame through the wire gauze. I think, how-ever, that the latter is the most efficient cause, since the gauze will allow the passage of the flame when it (that is the range) is not be request. the passage of the flame when it (that is the gauze) is not hot enough to minous, so that a great heat is not essential. Now when a Di is plunged into a jar of explosive mixture, a quantity of earb is immediately formed, and this mixing with the unconsumed por or is immediately formed, and this mixing with the unconsumed portion of the exposive mixture, diminishes its combustibility, and therefore its explosive powers. If, on the contrary, you expose the lamp to a current of an explosive mixture, the carbonic ucid which is developed is immediately got rid of, (as well as the nitrogen of the portion of atmospheric air employed in carrying on the combustion,) and then the flame passes. A

rentle motion of the lamp, combin current of the d with the gentle motion of the lamp, combined with the current of the gas, much promotes the passage of the flame. If, for example, a lamp held before a jet of gas until it becomes hot, (a red heat is not exeens and then gently moved, the flame will pass, and the experiment my repeated successively a number of times in the minute. Sir Hump Davy was well acquainted with this fact, that carbonic acid diminishes explosive property of gaseous mixtures. At p. 10 of his work, he says "On mixing one part of carbonic acid or fixed air with seven parts of explosive mixture of fire-damp, or one part of azote with six parts, the powers of exploding were destroyed." At p. 32 of his book, Sir Hup phrey Davy states that "the consideration of these various facts led to adopt a form of lamp in which the flame, by being supplied with only limited quantity of air, should produce such a quantity of azote and bonic acid as to prevent the explosion of the fire-damp, and which, by a mature of its apertures for giving admittance and exit to the air, should rendered incapable of communicating any explosion to the external air. It is evident, therefore, he endeavoured to form a lamp which should is safe from the combined influence of the carbonic acid gas, of the azote nitrogen gas, and of the wire gauze. ne. If, for example, a le hot, (a red heat is not e pass, and the experiment

safe from the combined influence of the carbonic acid gas, of the azote nitrogen gas, and of the wire gauze.

State to the Committee in what way you think the lamp of Messrs. Uptand Roberts is an improvement on that of Sir Humphrey Davy !— Therea several points of view under which we may regard it as an improvement. It the first place, it is quite evident that the wire gauze of the common Danlamp partially obstructs or impedes the passage of flame through a and therefore if you employ two layers of wire gauze, the obstruction is greater than that produced by one. Now in practice two layers of gas are objectionable; first, because such lamps would give very little light and secondly, because the gauze soon becomes clogged up. But even these objections could be overcome, there exists a still more weighty on namely, that the lamp, even with a double layer of wire gauze, is not a cure. I have repeatedly passed flame through lamps of this kind; the experiment occupies a little longer time, because the flame passes he readily through two than through one; but it does pass, and therefore such a lamp is insecure. Now in Upton and Roberts's lamp only one layer of wire gauze is employed, and therefore there is little impediment to light. To prevent the effects of lateral currents, they use a cylinder and the contract of the contra such a lamp is insecure. Now in Upton and Roberts's lamp only one lay of wire gauze is employed, and therefore there is little impediment to thight. To prevent the effects of lateral currents, they use a cylinder is glass placed external to the gauze. This is one improvement lupon the common Davy-lamp: it must be admitted, however, that Davy, at p. lo of his work, proposed screens to increase the security of his lamp; heither the screens of Davy, nor the cylinder of glass employed by Upta and Roberts, would of itself be sufficient to make the lamp secure. Hene therefore, we come to the next part of the improvement made by Upta and Roberts, and which consists in the manner they admit the externair, or the explosive mixture, to the interior of the lamp. Around the lower part of the lamp is a number of apertures, through which the a passes into a chamber, the ceiling of which consists of layers of wire gauze. To increase the security of the lamp, any number of these layer may be employed; they are easily taken out and cleaned, and they offen no impediment to the light; whereas in Davy's lamp, any increase in the number of wire gauzes diminishes the light. This then constitutes a maximp, and which in fact constitutes its superiority to all other safety lamps that I have seen: when the air or gas has passed through the wire gauzes, it does not immediately pass into the body of the lamp, but into second chamber, bounded above by a conical piece of brass, having a certral aperture about the size of a sixpence, in the middle of which is the wick; so that all the air passing into the lamp is brought in contawith the wick, and thus increases the quantity of light evolved; and the latter cannot fill with flame when introduced into an explosive mixture, so that the flame can never touch the wire gauze cylinder; and, is deed, between the flame can never touch the wire gauze cylinder; and, is deed, between the flame and the cylinder there is no oxygen to suppor ture, so that the flame can never touch the wire gauze cylinder; and, it deed, between the flame and the cylinder there is no oxygen to support
combustion, as may be shown by its extinguishing a taper; we have there
fore the very condition Sir Humphrey Davy wanted, since no taper with
burn in the space between the flame and the wire gauze; so that you ob burn in the space between the flame and the wire gauze; so that you observe we have three impediments to the lateral passage of the flame, I layer of carbonic acid, a wire gauze cylinder, and a cylinder of glas. The safety at the bottom consists in any number of wire gauzes the make may choose to employ, and therefore if the lamp is not safe it is his faul. Then how is the top of the lamp secured!—It is made safe by layers a wire gauze, and also by having a contracted aperture to the glass, by which the draught is increased, and all the carbonic acid gas that is fortised below, by the combustion of the fire-damp, or of the oil of the lamp, a well as the nitrogen of the atmospheric air contribute to prevent the con-

well as the nitrogen of the atmospheric air, contribute to prevent the combustion of a body in this situation, for if you put a lighted taper here, it extinguished immediately. Thus then this lamp is made safe at the side, at the bottom, and at the top, by different methods. If the glass should be a superficient of the contribution of the contr

at the bottom, and at the top, by different methods. If the glass show break, the lamp is then a common Davy-lamp.

Have you made experiments on that lamp in the explosive mixture!

I have submitted this lamp to every experiment I have submitted the Davy-lamp to, and I could never get this to explode; indeed, I have submitted this lamp to a test (oxy-hydrogen gas) which it is not likely to be a submitted by the lamp to a test (oxy-hydrogen gas).

put to in actual practice.

This lamp then is safe in a draught or current of explosive gas! it is perfectly safe in an enaught or current of explosive gas!—Yes, it is perfectly safe in any current of carburetted hydrogon gas, or of this gas and air. I have repeatedly tried it, as the flame will not pass. When the explosive mixture was blown in gently the flame will not pass. When the explosive mixture was blown in gendly, the flame increased in size; if passed in with violence, the flame was estinguished, but no passage of it will take place through the gauze.

Have you made any experiments in coal mines with it!—No, I hav never been in a coal mine with it. My experiments were made with coal

gas and with hydrogen gas.
You think that the lamp would be decidedly a protection to the colli

You think that the lamp would be decidedly a protection to the collier under any circumstances to which he could be exposed from carburette hydrogen gas!—As long as the lamp is perfect, it is safe; but if the glas break, it would be no safer than the common Davy lamp; as long, however, as the lamp is perfect, it is in my opinion quite safe.

Has it ever occurred to you to consider whether there might be any means of neutralizing the carburetted hydrogen gas found in the mine!—It may be absorbed by chloride of lime, and the French have proposed that as a means of preventing the explosions of the fire-damp; so that there are three plans proposed to guard against these accidents, namely, by the employment of safety-lamps, by ventilation, and, lastly, by the use of chloride of lime; but the last method is absurd when we bear in mind the extent of the collieries in this country.

Do you think that where the air-course extends, as in those collieries, a or 30 miles, the application of the chloride of lime in an effective manner would be at all practicable!—It would be impossible to distribute this substance over so great an extent of surface, so as to render a mine safe, and the miner would not be able by it to counteract explosions by sudden every

the miner would not be able by it to counteract explosions by sudden evilutions of gas. This chloride of lime might, however, be serviceable absorbing the gas, so as to enable a miner to breathe with safety. A flat nel dipped in a weak solution of the chloride might be applied over the

mouth and nostrils, if it were required to enter a chamber con-arge quantity of carburetted hydrogen.

Has your attention been drawn to the other invention of Mr. for removing bodies from the mine after an explosion !- Yes. n the fire hood tried ently seen the fire-hood tried on poisonous gases, and have general ustrated its operation in my lectures whenever I have had to speak the fire-damp.

You think that the hood of Mr. Roberts is a useful invention !- Yes;

And likely to accomplish what it professes to accomplish !- Certain! as long as oxygen is preserved in the air to supply life, that instrument will remove several of the most noxious of those gases likely to be met with for example, it would remove carbonic acid, sulphuretted hydrogen, carbo-retted hydrogen, the fumes of burning sulphur, &c.

Have you ever personally visited any of the collieries?—No, I have not; I am very desirous of obtaining fire-damp for analysis and experiment, but have not yet succeeded. And here I would again remork, that a my experiments were conducted with onal gas or with hydrogen gas. Now I am aware it may be objected that the fire-damp of coal mines is my precisely the same as coal gas; but to that I would reply, that Sir Humphrey Davy thought it necessary to make the lamps safe to the test of coal gas; and, therefore, I am justified in trying his lamp with its Secondly, I believe the fire-damp of coal mines is liable to variation, though that can be but an opinion, as I have not examined it. The opinion is founded partly on the statements of Davy, who mentions that he re-Have you ever personally visited any of the collieries !- No, I have no Secondly, I believe the fire-damp of coal mines is liable to variation though that can be but an opinion, as I have not examined it. The opinion is founded partly on the statements of Davy, who mentions that he respects oleflant gas to be sometimes present, and even admits the possibility of pure hydrogen being disengaged in mines, partly from the account of miners, some of whom have told me that the gas barnt very differently at the ferent times. I was informed yesterday by Mr. Goldsworthy Gurney, the pure hydrogen had been sometimes actually detected; and when we respect the composition of coal, and the variable products got by the distinct the composition of coal, and the variable products got by the distinct that the composition of coal, and the variable products got by the distinct that the composition of coal.

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vary very conliderably in coal mines.

it possible that a lamp might be safe in one mine and not in
do not think the Davy lamp is safe in any of these gases, but led it with pure light carburetted hydrogen, nor with the fire-

fould it not be a great advantage were scientific men to descend the a and experiment on these gaics !— Very great indeed.

you think that if a commission of scientific men was appointed, to the colliery proprietors or by Government, to visit the mining ets, and make experiments on the spot, it might not be very conducts the committee has in view !— I think it would be desirist for the sake of humanity; 2d. for the interests of the coalse; and 3d. for the advancement of science.

you think it might lead to such improvements as could not well occurred the scientific men without the sort of experience they would derive from

pe you think it might lead to such improvements as could not well octo scientific men without the sort of experience they would derive from
sonal inspection of the mine!—Certainly; it is very desirable that the
in of science should acquire practical information on all these points.
Have you any suggestions to offer to the Committee!—I would respectsily suggest the propriety of submitting all the lamps to trial in the presec of the Committee; we could soon show those which were secure and
see which were not so; and this would be the most convincing method
terrestations their relative values.

certaining their relative values.

on would have no objection to give your attendance!—I should be

happy.

o you know if Roberts and Upton's lamp has been tried in a mine you know if Roberts and Upton's lamp has been area on the fire r Mr. Roberts or Mr. Upton, when in the country, procured some fire from a mine, and showed the insecurity of the Davy-lamp with it, some coal-owners.

But is it not in regular use! - No. What is your opinion as to the

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Yes;

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fore some coal-owners.

But is it not in regular use!—No.

What is your opinion as to the development of fire-damp in coal sizes!—It is admitted by geologists that coal is of vegetable origin; that causes imperfectly comprehended have led to the conversion of immense assess of vegetable matter into coal. It seems also that fire-damp is developed during the formation of coal, but is kept from escaping by the ressure of the superincumbent strata. Hence then, when coal is covered y shale, the gas is pent up and prevented from passing outwards, and see coal is generally of better quality than that found under sandstone, sich is pervious to gas, and therefore which allows the escape of the fire-lamp. The great elastic force which the gas frequently evinces during its isongagement from coal, proves that it was in a state of great compression, and some have even suspected it may have been in the liquid state. It. Hutton has even pointed out the cells, which, in all probability contain its liquid fire damp. When the compressing force is removed, this fluid is supposed to be instantly converted into gas, and hence the eructations in blowers are easily accounted for.

In what way has Mr. Hutton stated that opinion?—He has published is opinions, and given drawings of the structure of coal.

ions, and given drawings of the structure of coal.

ou think that in all coal there is a certain portion of inflammable
believe so; but the quantity met with is variable; and this per-

as may arise from various local circumstances.

Is it your opinion that when the coal lies in an inclined position, a rops out to the surface, a portion of the gas will escape, and a mine limited may be less liable to explosions than one placed horizontally! that when the coal lies in an inclined position, and ould expect this to be the ear

grops out to the surface, a portion of the gas will eccape, and a mine so instact may be less liable to explosions than one placed horizontally 1—1 and a mine so instact may be less liable to explosions than one placed horizontally 1—1 as sufficient depth, sheets of subterranean water are reached, which is sount to the surface through the channel opened for it by the natural control of the surface through the channel opened for it by the natural form and frequently form an elevated and abundant jet. Spouting is buntains formed by art, or even simple wells of a small diameter, supsible the district of the surface of the surface of the surface of the surface is an activated by water coming from a great depth, bear the name of Artesian sountains, Artesian wells, and bored wells. They are called Artesian from Artois, a province in the north of France, where it appears the greatest attention has been paid to the discovering of subterranean vaters. It cannot, however, be denied that this sort of well was persetely familiar to the ancients, and that they knew how to make them. That extraordinary people, the Chinese, are also said to have known the use of Artesian fountains for thousands of years. In certain parts of lally it is very probable that Artesian wells were used at remote periods. Bernardini Ramazzini informs us, in fact, that in digging among the rains at the very ancient town of Modena, leaden pipes were sometimes found communicating apparently with ancient wells. Now, what could have been the use of these, but to discover, at the depth of twenty or twenty-five metres (that is to say much below the depth of uwholesome water resulting from local infiltrations), the clear and pure sheet of water, which supplies all the fountains of the medern city? In France there are no means of ascertaining when they were first used. The most ancient known is said to be of the year 1126, and exists in the old Carthasian convent at Lilliers, in Artois. Stuttgard, the capital of water, which supplies the process of the case o

with horror, enormous polypi attached to the rocks, the arms of which being several yards long, were more than sufficient to strangle a man. In many seas, the eye perceives nothing but a bright sandy plain at bottom, extending for several handred miles without an intervening object. But in others, particularly in the Red Sea, it is very different: the whole body of this extensive bed of water is, literally speaking, a forest of submarine plants and corals, formed by insects for their habitations, sometimes branching out to a great extent. Here are seen the madrepores, sponges, mosses, aca mushrooms, and various other things covering every part of the bottom. The bed of many parts of the sea, near America, presents a very different, though a very beautiful appearance. This is covered with vegetables, which make it look as green as a meadow; and beneath are seen thousands of turtle, and other sea animals feeding thereon. There are some places of the sea where no bottom has yet been found; still it is not bettomless. The mountains of continents seem to correspond with what are called the abyses of the sea. The highest mountains do not rise above 25,000 feet; and, allowing for the effects of the elements, some suppose that the sea is not beyond 30,000 feet in depth. Lord Mulgrave used, in the Northern Ocean, a very heavy sounding lead, and give out, along with it, cable-rope to the length of 4,600 feet without feeding the bettern. But the greatest depth hitherto sounded was by Captain Scoresby, who, in the Greenland Seas, could find as bettem with 1, and fathoms, or 7,200 feet of line. According to Laplace, its men depth is about two miles, which, supposing the generally-received clause to be remed, as to the proportion the extent of water bear of table feet of water.—Rev. C. Williams' Works.

(Continued from No. 18.)

(Conlined from No. 18.)

The time was now come when the Roman empire was destined to undergo one of those revolutions which form so prominent a portion of ancient history. It had subdued no inconsiderable part of the known world: and if it had given peace and civilization to its different acquisitions, these blessings were not to be enjoyed without concomitant evils, evils savouring, in the many instances, of slavery and oppression. The empire was now assailed by the northern barbarians, and for its defence was obliged to call in the aid of the Britons and other warlike nations, who, under Roman training, had added discipline to their native bravery; and whose blood was now to be vainly shed for the sustenance of the enormous fabric by which they had been subdued. The flower of southern Britain being wasted in the sanguinary struggles of the expiring empire, it soon became a prey to other enemies. The Picts, though of the native British race, were entaged, not only against the conquering Romans, who had formed so close an alliance with these formidable enemies, burst the Roman barriers, taking terrible revenge on the defenceless Britons. "The groans of Britain" were sent to Rome, but the Romans, unable to help themselves, were capally incompetent to assist their aline. Hence the Britons were obliged to abandon their agricultural pursuits, and, for saking their comfortable habitations, they betook themselves again to the forests and mountains; and the ancient Cornish once more took up their position on and about Carn Brea. There, and in other like places, they again organized their forces, and, recovering themselves, they assumed the offensive, and obliged the Picts to retreat within their own frontiers.

The Britons were again left to themselves; but their repose was of short duration. Britain soon became the theatre not only of domestic feuds,

the Britons were obliged to abandon their agreements per again to the forests and mountains; and the ancient Cornish once more took up their position on and about Cara Brex. There, and in other like places, they again organized their forces, and, recovering themselves, they assumed the offensive, and obliged the Picts to retract within their own frontiers.

The Britons were again left to themselves; but their repose was of shert duration. Britain soon became the theater not only of domestic feuds, but of theological disputes; Cornwall, as usual, came in fee her share of these discussions, and the disciples of the celebrated British theologian, Pelagius, could find no more appropriate float to an almost, if not Bliton, and alm an amount of the celebrated British theologian, Pelagius, could find no more appropriate float to an almost, if not Bliton, and she was again threatened with a forcigin invasion; and it was these domestic calamities, and foreign menaces, which paved the way for her introduction of the Sarows; a people who, in these barbarous time, were poreminently distinguished for their manners, their policy, and their valour. The Saxons had long been amongst the most formidable enemies of the Romans; the dissolution of the Roman empire now made way for their enterprizing spirit, and it was with no little astistation that they acceded to the request of the British deputies who had been sent to solicit their assistance, and whom they readily accompanied to Britain. The Saxons having once obtained a footing in our island, appeared in no baste to depart, but regarded it rather as their future home. Searcely had the access to the part of the private of the private properties o

conquest to conquest until he dissolved the Reptarchy, and consolidate its several states under his own absolute dominion. It was under these auspicious circumstances that he again turned his attention towards Cornwall, and hastened to lead his powerful and victorious veterans against our ancestors. To describe the bloody strife of the Cornish and Sason combatants at Carn Brea, would be little more than a recapitulation of that the same than a second to the cornish and the same contraction of the cornish and the contraction of the cornish and contraction of the cornish at the cornish and contraction of the cornis ancestors. To describe the monody string of the Cormish and Sakon combatants at Carn Brea, would be little more than a recapitulation of that already described between the Cormish and Romans. Suffice it to say, that Roman discipline had been added to British valour, and all that could be effected by the happy union of these heroic virtues, was done in defence of this favourite position. But the old Cornish heroes were once more overpowered by superior numbers, and Carn Brea, after being active deceded in home control of the second control of th again denched in human gore, after again responding to the agonizing groams of myriads of expiring warriors, again became the scene of a
degrading and idelatrous worship. The superstitions of the Saxons appear
to have been founded on a series of traditional tales and legends, handed
down to them by succeeding generations, and can scarcely be said to have
been reduced to any regular system, or to be supported by any political
institutions. Woden, from whom they traced their origin, was handed
down to them in these fabulous legends as the god of war, consequently be
became their supreme divinity, and the primary object of their aboration,
and, flushed with their success, and attributing their victories to hir influence, a temple was instantly reared to his honour on the summit of CareBrex. gain drenched in human gore, after again res ding to the ago

(To be conti-

Fatal Mine Accidents.—On Wednesday, the 30th ultimo., H. Edwards, of Camborne, a lad about 15 years of age, was employed at the North Roskear mine to wheel some stuff over one of the shafts. It appears that he had gone to and fro repeatedly, and the pince was considered safe; at last, however, melancholy to relate, by some means anaccounted for, he fell into the shaft and was killed on the spot. He was found about 50 fathems below the place where he fell away, in a shockingly mangled state. An inquest was held on the body on the following day, and a verdict of accidental death returned.

SCIENTIFIC SOCIETIES. GEOLOGICAL SOCIETY OF LONDON,

January 6th, 1836. Mr. Lyell, President, in the Chair. The following

January 6th, 1836. Mr. Lyell, President, in the Chair. The following communications were read:—

1st.—An extract from a letter addressed to the president, by Captai Bayfield, R.N. It gave an account of the transporting power of the is packs formed every winter on the extensive shoals which line both side of the St. Lawrence. These shoals are thickly strewed with boulder which become entangled in the ice, and in the spring when the rive rises from the melting of the show, the masses of ice are floated of frequently carrying the boulders to great distances. Captain Bayfiel also states that icebergs in which boulders, stones and gravel, are imbedded, are annually drilled down the coast of Labrador, throng the strait of Bellisle, and for several hundred miles up the Guif of the St. Lawrence.

NATURAL HISTORY SOCIETY, NEWCASTLE-ON-TYRE.

NATURAL HISTORY SOCIETY, NEWCASTLE-OR-TYRE.

At the last general meeting of this Society, held on Monday the 21st inst., John Adamson, Esq. in the Chair. Major Emmett read a paper on the gas of coal mines, in the course of which he mentioned some of the many plans proposed to avoid the danger of explosion, and more particularly to the different modifications of the Davy Lamp.—he referred to the evidence lately published by the House of Commons, on the subject of accidents in mines, and particularly to the modification of Davy's lamp, invented by Upton and Roberts, and exhibited before the parliamentary committee. A conversation took piace after the paper was read, when it was determined that the society should suggest to the mining interest of the district the importance of having the gases envolved in different mines earsfully analysed. Upon the motion of Nicholas Wood, Esq., seconded by Mr. Henry Turner, the thanks of the society were given to Major Emmett, who, in return, stated, that although he was soon to leave the country, yet if he could be of use to the society where he was going, it would give him pleasure to be so; John Clayton, Esq. was unanimously chosen one of the vice presidents. Mr. William Clayton, for Walker, was elected an ordinary member, and Capt. Doval, of the ship Duncan Gib, an honorary member of the society; three gentlemen were proposed for ballot next month, and the following presents were announced as having been received since the last meeting, for which thanks were voted to the donors, viz.—A deposit from a water-pipe, by Mr. John Hancock; four species of fossil shells and two beetles by Mr. Dennis Embleton; a gold fish, and a mass of rubbish congenied from water, by Mr. James Veitch; a robin red breast by Mr. Psiriess; is specimens of corn, reduced to a cinder by fire, Mr. Armour; a silver steelyard, by William Webster, Esq.; a filnt containing a fossil shell by Mr. Ingledew; a fine collection of bird skins from Van Diemen's Land, David Akenhead, Esq.; a collection of rare shells,

TRADITIONARY PRAGMENTS OF MINING HISTORY, BY A CORNISHMAN,

The l'air, or Sober John and Capt. Joe. CHAP. IX.

CHAP. IX.

Having accomplished his purpose as to mining business, Soher Johad next to turn his attention towards his notable project, other was a superior towards and he was just as much at home on these as on mining subject. After describing the perils of the sea, he went on to treat of the unit treasure which lay in the caverus of the great deep, and speculated the probability that these rinhes will, account or later, by means sign perhaps in themselves, he again rendered subservient to the use of mile next expatinted on the absolute certainty of a successful invasion that part of the kingdom of old Neptune called Guillem Hay, and if forcing of the joid assourch of the deep, to surrender up that treasur which he had so long kept possession of in the hulk of the Spaniard, and its extraordinary freight of doubloons. Much of business on this head, however, was already done by the famous. which he had so long kept possession of in the hulk of the Oldspanisted, and its extraordinary freight of doubloons. Much of his
business on this head, however, was already done by the famous description already alluded to. It was here set forth, on competent
authority, that these riches had, from time immensorial, been covered by
all lovers of lucre, who had tortured their brains not a little to device
the means of rescuing them from the world of waters, and placing them
once more on terra firms, secure in their own coffers. It then went on
to ascribe the different failures that had occurred from generation to
generation in these attempts to very plausible causes, and to show that
the ancients were not sufficiently conversant with the arts and sciences
for the successful execution of this important enterprize. It then
touched on the rapid strides recently made in every thing connected which
and science, and dwelt more particularly on the improvements effected
in the different apparatus requisite for the execution of this notable project. This was followed by a sketch of the coast, admirably the rapy sober John's own hand, in which Gull'em Hay was marked out with the
greatest accuracy, and the position of the Old Spanisrd, with the depth
of water in which she lay, and her distance from the shore was minutal
delineated. In conclusion, it described the asture and power of the
machinery, necessary for weighing the hulk containing the treasure, and
wath an estimate of the expense which might be remonably supposed to
complete the project. In short every thing was minutally described beth
the profits a not the remain for lawsing these indefinite was most active
factory one, namely, they were certainly above all companions. this time the hog-merchants themselves were not so much oured of the Gull'em Bay project as the cocknies; and the shares notable speculation were grasped at with so much avidity by the and Mouth visitors, that Sober John had great difficulty in reserving shares for himself and friend.

a few shares for himself and friend.

A Company for carrying the project into execution was readily formed; and the princely fortunes of the fortunate shareholders were almost ready to drop into their pockets. The different documents necessary for the execution of this project, and for the working of the different bals, were readily made out, and duly signed, sealed, and executed by Sober John; and the deposits on the different shares were sacked up in the old sampling bag, to the great satisfaction of both the

executed by Sober John; and the deposits on the different satisfaction of both the hog-merchants.

This satisfaction, however, was but of short duration, for the pair were soon at "loggerheads" between themselves. Sober John was purser, and bore the bag; this, while it was light, was borne with so much forbearance by Captain Joe, that his comrade had not unfrequently complimented him with the appellation of Job. But now the bag had acquired bulk, Captain Joe did not take it so patiently; and on finding that he was kept, as it regarded money matters, on short commons, he retorted on Sober John, and nicknamed him Judus. The economizing principles of Sober John, had frequently led him to remonstrate with his comrade on his free and easy mode of living: this as frequently led to a fracas between the pair; Boniface would sometimes undertake the office of the fly-catcher, and attempt to mediate; but as the quarrels were generally about Captain Joe's scores, Boniface, who generally sided with Sober John, came in for his share of abuse, for Captain Joe invariably swore. "that he scored with 'two clauced chafk', and that he was as big a rogue as Judas." The deposits came in just in time to save the credit of the Hog-merchants, who by this time, despite Sober John's economy had nearly "gone the whole hog," the joint stock purse being reduced to such a state of ebb, that it contained little, if any thing more than that which was described by Rochester as coming to the King's share out of a sackful of taxes, namely, a solitary sixpence: and were it not for these fortunate deposits, the Hog-merchant's scores at the Bull and Mouth would certainly have to be charged to uncle Will Jennings, an old gentleman in Cornwall, proverbial from time immemorial, for being saddled with all bad debts.

During the time in which their exchequer was at this low ebb, with all bad debts.

with all bad debts.

During the time in which their exchequer was at this low ebb, Captain Joe commenced courting the cook; passing himself off as a stordy bachelor, he made Mrs. Drippingfat such little presents as his means would allow, and promised her a great deal more, with a husband into the bargain, as soon as he had sold his bals. This affair might have been attended with rather serious consequences, as cookee had another lover; and the chamber maid was a "lectel" in love with Captain Joe; but as Captain Joe's regard for the cook consisted chiefly, if not altographs in a love for the contents of the pantry, into which it gave him an early support the contents of the pantry, into which it gave him an lover; and the chamber maid was a "betel" in love with Captain Joe; but as Captain Joe's regard for the cook consisted chiefly, if not altogether in a love for the contents of the pantry, into which it gave him an introduction; and as he was generally at his toddy when the other lover looked in, the only disagreeable circumstance attendant on this gallantry was a little jealousy on the part of the chambermaid, who played him a few tricks in consequence. Mrs. Betty found a willing confederate in the boots, who had more than once said some soft things to her himself; and had felt a little mortified on discovering that she had kept him at more than the usual distance on account of Captain Joe; he was therefore nothing loath to assist in serving out the Hog-merchant as the price of his again being restored to favour. Formerly, when Captain Joe had mollified his clay a little more than usual no nurse could take more care of a sick patient than Mrs. Hetty did of him: and tradition says, that on one or two occasions he would actually have gone to "hult" on the floor, were it not for her kind offices in assisting him into bed. Now, however, the tables were turned, and Captain Joe, by some fortuitous circumstance having taken a little more than a quantum sufficit of toddy on a certain occasion, instead of being helped to bed as usual, was left to grope on by himself: but this was not all, for the confederates had so mystified and "transmogrified" the landing place, by placing certain moveables in positions directly opposite to those which they were wont to occupy, that Captain Joe missed several points in his dialling, and instead of getting into his own bed-room, he groped his way into an opposite closet containing a shower-both.

(To be continued.)

NOTICE TO CORRESPONDENTS.

EXTRA SHEET.—We this week perform our promise of giving an extra sheet, and with pride and pleasure we are enabled to refer to the important and interest matter contained in the columns of our present number as the best evidence of success which has attended our exertions, and which enables us not only turn the additional expense attendant on the publication of an extra sheet, the mps on which, in addition to that of the regular number, amount to more that sale price of the Paper (net to remark on paper, printing, and our own labours I, we hope, be considered as a grateful tribute in acknowledgment of favour ferred.

will, we hope, be considered as a grateful tribute in acknowledgment of favours conferred.

MAP of Cornwall—Is in progress; the wishes of several correspondents shall, so far as is practicable, be compiled with; we cannot, however, promise it so early as we at first contemplated, finding that we must be indebted to many for local information. It is our desire to render it as perfect as possible, and therefore it is that we renew our invitation to our readers to contribute such information as they may possess, with suggestions. The Map will be accompanied by a supplementary number for reference.

Coal Districts.—Our correspondent at Newcastle-upon-Type no doubt would much like us to give a map of the coal districts, but one at a time, "if you please." We have thought on the matter, and if he will furnish us with the data he refers to, we shall be happy to take the subject into more mature consideration.

Jace Parcious.—This is a precious gent., and not particular as to the terms be applies to others, or the libedious attacks of which he would wish to make the Editor of the Mining Journal the scapegoat. Let him throw off his disquise—if an "Old Tinner," we think we must have heard of him at least by name, but the make fits not well. If the statements in his letters be correct, and he will give us his "precise," not "precious" name, we will (avoiding libel) not healtate to draw the attention of the shareholders to the subject on which he treats.

Says of vas Missins Journal.—We have again to express our regret that we have been unable to supply complete sets—not having a copy of No. 2, and those of No. 2 being very scarce,—we shall esteem it a favour if agents or parties possessing Nos. 1 and 2 would furnish us with them, for which we shall cheerfully pay hand-semely.

Nos. I and 9 would furnish us with them, for which we shall cheerfully pay hand-comply.

BYASHOUS AND TYES HALLWAY COMPANY.—We refer our readers to a paragraph of our present number with reference to this Company.

ALBION MINING CUMPANY.—We have received a letter from a correspondent, in shich he observes—"I believe the Albion Company is the only concern on which gig, or I might say a coach house and stables have been erected;" on this, as on their remarks, we at present abstain from any comment.

BALLWAYS.—We have this week to direct attention to the comparative gradiants of the three Brighton lines; and a letter on the subject, with Nir R. Peel's barryations at a late meeting at Tamworth, which latter we have been induced to quy from a contemporary at the expressed wish of several of our subscribers, and almost be considered otherwise than worthy of insertion in the Mining Journal, as align a comprehensive ties of the other lanes, and continue them to our subsequent numbers.

our subsequent numbers.

Ivings and Tirst Pass.—With our present number will be given an Index and
the Page, which will convey a general view of the objects to which the columns
the Mining Journal are devoted.

Laran Maxs.—We have been disappointed in not receiving the communication

n correspondent.

Trunced we are as anxious to afford the information as he is to acquire it tout the way!

vill be point out the way?

Swarasrass.—We are much indebted to several correspondents for their offers of contribution in this department, but more particularly to F. G., who has favoured a with a series of papers on Spain, to be followed by others of a like nature relating to other countries. In our present number will be found the first of this

beries.

The letter of Mr. W. J. Henwood, of Pensance, on the subject of Steam Power this not reach us until this morning, although dated the 2nd lissi,, the insertion of which is necessarily deberred until our next.

THE MINING JOURNAL AND COMMERCIAL GAZETTE.

LONDON, January 9, 1896.

In our last Number we felt called upon to make some observations on the formation of Companies, and more particularly on the self-nomination of Directors, who, as we had occasion to observe, were, in many instances, merchants intimately connected with the county of Cornwall, and interested in supplying the mines ;-obtaining, also, as they contemplate doi purchase money for mines heretofore unsuccessful in working, which, if they cannot get the public to join in, would otherwise he abandoned: we beg to assure our readers there is no vice

We do not, however, wish to be considered as unmindful of our friends at home, who, if we did not notice their move-ments might think they were forgotten;—therefore we propose,

on the present occasion, to notice the way in which matters are managed in London; and although many opportunities present themselves, the corporation of the city of London claims a pre-eminence of notice.

It is not our province to touch on politics, or to meddle with corporations; and therefore the House of Commons and the Aldermanic body of the city of London are not subjects to which we ever dreamed our attention would be directed; but, a Prospectus has been put in our hands, in which we find that a worthy and respected alderman, one of the representatives of this city, is chairman of a board of directors of a Scrip Company, with a nominal capital of £20,000, which is about being formed; and with whom are associated another worthy alderman and five other gentlemen of undoubted respectability.

It is not our intention to make any observations on the value of the Mine, for well assured we feel, that without the gentlemen forming the direction were well satisfied that the concern was one which justified the outlay of capital, they would not connect themselves with the adventure; while we are also satisfied that some of the gentlemen possess not a trifling knowledge

of mining operations.

The Prospectus of the Company will therefore form the subject of our remarks, and we shall not hesitate to express our opinions thereon, feeling, as we do, that by the formation of com-panies of this nature discredit is thrown on mining operations generally. Let us now see—Here is a company, capital £20,000, in 2000 shares of £10 each; deposit £5 per share. The present proprietors of the mine (query, who are they? having "agreed to part with one-half their interest in consi-deration of receiving one thousand shares, bearing thereon an acknowledgment of the satisfaction or payment of £5 per share having been made." Such is the offer of the present proprietors; but as there are generally two parties to a bargain, we presume they mean that they intend to take if the public agree to give. Now we doubt not but that the property is worth all the money, more particularly as the mine said to be in a miner -like state for extensive and profitable operation," and that there are "encouraging indications.

The most important point however in this prospectus is the statement, that a capital of £5,000. "it is presumed will be amply sufficient "-so that we have here two aldermen, being a member of parliament, and five other gentlemen of the first respectability, forming a Board of Direction; one solicitor, two bankers, one secretary, one manager, and one inspecting agent, not to speak of the subs, and a very well set up prospectus, with the names of these several parties, put forward to raise the Sum of £5,000. Why, if the directors themselves seven in number (we do not know what salaries they may have resolved on taking) have not sufficient confidence in the adventure to embark, and induce their friends to do so, what opinion can the public form when a prospectus of this nature to raise £5,000. is laid before them?

The absence of the names of auditors, and any reference to rules and regulations by which the Company is governed or to be governed, may, perhaps, as well as the qualification of Directors, be deemed as hardly worthy of the attention of the public by the Board of Directors; the Chairman, of whom, if we mistake not, has lately, to the satisfaction of his fellow citi-zens, been appointed to a Governorship, as well as the Chair-

manship of the Company now under notice.

We are not aware whether the Shares of the Company have been all taken up or appropriated, as the closing words of the prospectus are, that the "List will be closed at the earliest opportunity." We must therefore refer our subscribers to the Court of Aldermen or the office of the Company for further information, having, as we consider, done our duty in affording them an opportunity of deriving "a proportionate benefit" from the working of the mines—if that they take shares—We are not prepared to say whether we wou'd or we wou'd not.

Since writing the foregoing we have to acknowledge being favoured with a copy of the rules and regulations which are endorsed on the Scrip Certificates or Shares, but which, however, by the bye, no one can see until he has paid his deposit. They appear to be far less objectionable than many which have come before us, and as we find that the directors are to meet at least once a month (which, by the bye, admits of their devoting each one hour and a half per day, as in the case of a Company we had occasion to mention, the Directors taking £150. per annum each) we are, however, induced to hope they will consider themselves in some degree as a nominal board, and that their salaries will be nominal, or inproportion to their labours. We find the qualification of a Director is 50 Shares; this is, for the seven, 350 out of the 1000 to be disposed of. Now, if each director can manage to get two friends to take an equal number, the job is done, and then why the necessity of wasting money in printing and advertising? However our con-science is not burdened on that account.

. Query - Minor, Printer's devil.

From a statement made in " The Times" of yesterday, it would appear that the " New Companies brought forward in the past year, represent a capital of nearly £48,000,000," which Editor observes does " not fall much short of the capital of those formed in 1825," and " it is probable that a very large We admit the proportion of them will never be paid up." talent and ability of our contemporary, at the same time we profess to be more familiar with the subject to which his attention has in this instance been directed.

From the article to which we refer it appears, that the capital of the Mining Companies of 1835 is, £2,944,000,—Railway companies, 34,040,000. Miscellaneous, £19,811,000 making as before observed, nearly £48,000,000. The observation that this sum amounts to nearly that of the speculations of 1825, (whereby the reader would, without reference to documents, be perhaps induced to draw the deduction, that the public were as wild now as then,) is far from correct, as the subjoined extract from a pamphlet published in 1827, by the Editor of the Mining Journal, will at once show. culations of the past year, assuming " The Times' to be correct as to their amount (for we have not time for our present Number to check his estimates) does not much exceed sent Number to check his estimates) does not much exceed one-eighth of those of 1825, which amounted to £372,173,100 divided into 5,263,220 shares; and in 1827, the capital of then existing companies alone was £102,781,600; the amount of calls paid being £15,885,950 exclusive of premiums.

We have not space on the present occasion to enter more fully into the subject, but shall content ourselves by making the existing the second of the subject.

the extract referred to,

SUMMARY OF THE COMPANIES FORMED IN 1824 AND 5 (enumerated in the pamphlet in detail.)

	CAPITAL.	BHARES
74 Mining Companies	38,370,000	537,200
29 Gas ditto	12,077,000	200,940
20 Insurance ditto	35,820,000	651,000
28 Investment ditto		686,500
54 Canal Rail Road, &c	44,051,000	542,210
67 Steam	8,555,500	125,220
11 Trading	10,450,000	85,000
26 Building	13,781,000	164,900
23 Provision	8,360,000	674,000
49 Miscellaneous-Existing	38,824,600	562,500
43 Ditto Abandoned	20,409,000	390,250
57 Ditto Projected	19,700,000	382,600
143 Ditto Ditto (No. 2.)	69,175,000	959,000
624	£372,173,100	5,963,220

THE PUNDS

CITY. -FRIDAY.

The change of character from stagnation to activity, which the funds

The change of character from stagnation to activity, which the funds have exhibited since about the 28th December, has continued to be the principal feature during the past week.

Consols were on Saturday at 92½; on Tuesday they reached 93½; after which they declined to 92½ on Thursday; and they close this evening at 92½ ½, or 91½ ½ exdividend. The public dividends for the half year (ended 5th instant) upon Consols; new 3½ per cents January Annulities the the commenced name with programs.

Annuities, &c. &c. commenced payment this morning.

The rise of the Funds has certainly been caused by the mediation of this country between France and the United States, which has been lately offered to, and accepted by the former; the dispute has always, in fact, appeared to rest rather upon a point of honor than upon any determination of France to refuse payment of the money, and as every expression of regard for the honor of France, which could be reasonably required, has been given in the president's message to congress the public opinion is, that the dispute is at an end.

Added to this cause is the high tone of confidence prevailing here on account of the really sound and healthy state of our commerce and manufactures, and the abundance of money, which as it arises, from the payments of Government of the indemnity due to the West India Planters, appears to be freely invested in almost all the funded securities of respectable character, and chiefly hitherto in the British Funds.

There is also an opinion generally prevalent that the alliance existing

appears to be freely invested in almost all the funded securities of respectable character, and chiefly hitherto in the British Funds.

There is also an opinion generally prevalent that the alliance existing between France and England is at present more intimate and sincere than it has ever yet been; and that the former has at length taken effectual means for blockading the passes of the Pyrennees, so far as to prevent as much as possible, any communicating with the Spanish Carlists.

The reaction which took place some days ago in Consols and Spanish Bonds was owing to the sudden rise of the former, and to their high range of quotation which checks the desire of the public for investment in them. In the latter it was chiefly owing to the considerable and sudden rise which had taken place, particularly above 50 and 51 limits; while the Spanish Bonds have had so much difficulty in surmounting since the panic which occurred in May last.

Exchequer Bills and East India Bonds have also risen, the former considerably, the public appearing to prefer a temporary frankage of Exchequer Bills to any investment in consols at present prices, independently however of the reaction which occurs naturally in consols after any rise upon the present quotations, it is certain that the temporary decline which took place, is to be attributed to the caution of capitalists and speculators, inspired by the severe remarks which appear in those newspapers supposed to be most in the confidence of government. These remarks have exchanged their former character of accusations on the subject of Poland to that of menaces on the question of Turkey. This feeling has been increased of late by the appearance of articles in German papers under the controul of Austria; and by the publication here during the last 5 weeks, of a weekly periodical called the Portfolio, in which are published letters and documents professing to be copies of those transmitted at various times during the last 5 or 10 years by the Russian ambassador here to his government.

If these articles be as they seem, genuine, their appearance in this public form accounts for the suspicion which is entertained in the city, that our relations with Russia are upon the most unfriendly footing; it is also evident that the papers must have been procured originally by clandestine means, and that their present publication must be encouraged by high authority. The opinion gains ground that England, France, and Austria are thoroughly agreed upon the subject of the Dardanelles. These powers, if united, are obviously too strong to be resisted, and finding Russia positively weak, and unable to act in the South on account of the great military force which she is obliged to maintain in Poland, they appear resolved to break up by force the treaty of Skelessi, imposed in 1833, by Russia upon Turkey; to occupy the forts on the Dardanelles, and to provide for the freedom of the Danube, which they are resolved shall not be interferred with by Russia. Not-withstanding this, or, perhaps, in consequence of the belief that all the power is on the side of the allies, and all the weakness on the side of Russia; it is expected in the city that although there may be some display of force, yet that Russia would submit, and that no rupture of the peace will take place. Whatever confidence may exist upon this result, it seems certain from the manner in which the public mind of the west of Europe has been for some time prepared by the newspapers, that much caution ought to be used by the mercantile classes, especially in their speculating in the public funds.

If on the tother hand, the corning of Parliment display the double.

of Europe has been for some time prepared by the newspapers, that much caution ought to be used by the mercantile classes, especially in their speculating in the public funds.

If, on the other hand, the opening of Parliament dispels the doubts which hang over the question of our relations with Russia, it is confidently expected that the French Government will bring forward a project for an ultimate reduction of the interest on the 5 per cent. debt, by exchanging 100 5 per cent. for 100 4 per cent., and by adding also an annuity of £1 per cent. during a fixed period of 10 years.

Spanish Bonds have, as usual, varied considerably during the week. They commenced on Saturday at 50½ touched 51½ on Wednesday, and declined the same day to 40½. They opened this morning at 50½ rose about 12 o'clock to 50½ on the arrival of an express from Paris, bringing intelligence of a rise in the Spanish Funds, and they close this evening firmly at 50½, 51½.

Within the last ten days these Bonds have been supported by many resolute purchasers, and the motives by which they have been guided appear to be, that they consider Mr. Mendizabal's government strong and energetic; that the reinforcement to the army of the Ebro are actively promoted; and that the struggle in Biscay will therefore terminate this Spring in the final triumph of the Queen's cause, and the expulsion of Don Carlos.

In addition to the prevalence of these opinions there are rumours on

f Don Carlos.

In addition to the prevalence of these opinions there are rumours on sepretable authority, that a treaty of Commerce has been signed between ingland and Spain, by which all ships and merchandize will enter the panish ports on the same footing. This, if true, will be of the greatest Spanish ports on the same footing. This, if true, will be of the greatest advantage to Spain herself, and not less so to England, our trade with Spain having been for many years, especially since 1823, subjected to discriminating duties, by which our shipping and manufactures were unfaith evaluated.

It is also stated this morning, that the vote of confidence in Mr. Men-It is also stated this morning, that the vote of confidence in Mr. Mendizabal's ministry has been passed by a great majority in the Chambers. The continued statements of the minister, that he will be able to provide for the extraordinary expences by which the Spanish government is just now burthened by the insurrection in Biscay, without recurring to fresh loans or taxes, excites surprise: there is, however, a rumour again to day, that in consequence of the Commercial Treaty between the two countries, the British ministry is inclined to propose to Parliament that a loan for two millions sterling for Spain shall be guaranteed by England. France declines all participation, having no interest to induce her, and having also suffered much loss in consequence of her guarantees of 1823 and 1824, when Ferdinand and the Church party were restored by the arms of France.

Crrr, 12 o'Clock.—Consols for account, 92‡, ½; Feb. Account 92‡, 3; 3 per Cent. Red. 91‡, ½; Enchequer Bills. 2s. 1s. 3s.; East India Bonds 5, 7 pm.; Belgian 5 per Cents., 101‡,; Portuguese 5 per Cents., 84‡, 5; Spanish 5 per Cents., 50‡, ½; Deferred, 25‡; Passive, 60‡ ‡; Mexican, 38, ½; London and Birmingham Railway, 51, 3 pm.; Greenwich, 8‡, 9‡ pm.; Greet Western, 13, 14, pm.; North Midland, 3‡, 4‡, pm.; Danube and Mayne Canal, 1 dis. par.; United Mexican, 3‡, 4‡; London and Westminster Bank, ‡, 1 pm.

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MINING CORRESPONDENCE.

NORTH ROSERAL.

This mine is situate in the parish of Camborne, to the north of the twestern road. It is on the manor of Roskear, and the county aber, E. W. W. Pendarves, Esq., is lord of the soil. It is a new having commenced working about twenty years since. It includes, eser, the old mines of Prince William Henry on the west, and of self Crofty and Wheal Knight on the east; the two former are on the the Roskear lode, and the latter is on a lode running in a parallelation at some little distance to the south. The operations comsered at Prince William Henry, where the deep adit was commenced sing on what they then considered to be the lode, but which certainly is more the appearance of a slide or of a quarry, being what is locally sed "a great paunch killas." Having driven on this course for set 300 fathoms, they met with a cross-course, on which they drove ath, and soon intersected the lode, on which they commenced driving to the productive, and, continuing to improve in its progress eastward, it is found necessary to sink a shaft on it for the purpose of drawing the man and the course of the lode before it between the course of the lode astward, and continued to improve; and, having driven several statements of the continued timprove as much as the operations were extended, not they in an eastern direction, and going down, but also on being opened to the west, of the cross-course, that the small presser was soon perseded by a more powerful steam-engine, and the mine quickly stame one of the most productive in the neighbourhood. In consequence of the excessive hardness of the ground the operations were not obsecuted so rapidly as many other mines; and, being attended with ach more cost, the profits must, of course, be proportionably less, confident were they, however, in the resources of this valuable lode, at, instead of endeavouring to make the greatest possible expense—as is too frequently the case in mining—by prosecuted their operations on an extensive, fair, and approved stem. As an instance in illustra HARES. 86,500 42,210 25,220 62,500 90,250 82,600 59,000

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ENGLISH MINES.

NORTH CORNWALL MINING CONFANY, Wheal Thomas, Jan. 2, 1836.—
It is surveying the mines this day, we are proud to say that we found the de at the 17 fathom level much improved, worth from £20 to £30 per thom, with a very fine strata of ground, and from the present appearance of the lode and its situation, we consider that a greater improvement may me long be expected. In the 8 fathom level end, east, the lode produces me lead, but not rich; the end west, at same level, the lode is improved a size, with a little lead. Wheal Hope.—The lode at the adit level in his mine is about 18 inches wide, with a more promising strata of ground has no have seen for some time, lode poor; in the 12 fathom level the bade is 2 feet wide, composed of spar, gossan, and mundre, with some lead, but not enough to pay for saving; in 20 fathom level, lode about 10 inches ride; this lode has yielded some good stones of lead this week, and a greater quantity we expect soon. We have got our footway down to the 28 fathom level; this level appears to be standing very well; expect the water will be miorked by Monday morning 40 fathoms under adit, when we shall immediately prepare to drop 10 fathoms deeper. Our setting took place this say, and we set an end to drive south, from engine shaft at Wheal Thomas, 17 fathom level, to cut other south lodes; the particulars of this, and of are other bargains, will be given you in setting report. We have sent tody a box containing 2 stones of lead, that we consider a fair sample of the lede at Wheal Thomas, 17 fathom level.

HAYLE CONSOLDATED MINING COMPANY, Jan. 4, 1836.—We have deared to the bottom of Ellwand's shaft, but have not been able to examine the workings settward, they being entirely full with rubbish and and to the adit level. We are driving laths, and clearing as fast as possible, and my next will, 1 hope, give poin information relative to the state of the greatest part of the workings, if not of the whole. In the eastern part, which was left higher, and which we suppose was tons. cwts. qrs. Ibs. 6112 11 . 0 17 6 4 6 15 Nov.

No. of kibbles

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British Tin Minino Company, Jan. 4, 1836.—The ground in our cross-cut north at the 12 fathom level is much improved since our last report. We supposed, from the appearance of the ground, as stated in our last report, that we were near the lode which we expect to intersect next, being the lode on which there has been so much working in the bottom of the adit, but on dialling the ground at the adit level, and supposing the eld men cut the lode at 5 fathoms below the adit in the winze, and the lode keeps its regular underlay, we shall then have from 3 to 4 fins. to drive, to intersect it. The water is gradually sinking in the winzes, and we intend elearing up the winze sunk on the caunter lode immediately, and shall coulinoue to aink it, if it can be done without a water charge. We are executing the platt at the 12 fathom level as fast as possible, and so soon as this is done we shall commence driving east and west on the course of Fagan's lode, and on the little lode which we intersected about 6 or 7 feet from Fagan's lode, which has a promising appearance. Fagan's lode is the ground or have to cut on, breaking the platt, and will give us some tolerable work. The pitch on Fagan's lode is just as our last week's report stated. The ground in the adit end on Dyer's lode is much the same as last week.

R. R. Gracu, G. Baar.

Willia tin sold

NEW CRINKIS MINES, Dec. 26. 1835.—This being the regular measuring and setting day for these mines, we have been underground, have measured the bargains, and by mutual agreement have set such things as appear to us most desirable to be, done under the present limited mode of working. The ground excavated in the past month is as follows, viz.—engine shaft, sunk about 4 ft. 6 in., not set in consequence of water being in, therefore it could not be seen, the wheel being impeded by the frost. The 55 fathom level west driven 2 fathom 3 feet 9 inches, have this day set to discover the lode to the bottom of the level, preparatory to taking down the lode at 45s. per bargain. The 55 cast driven 3 fathom 4 ft. 6 in., have also set a similar bargain, as in the west end at 45, and intend to have the lode taken down as soon as these bargains shall have been finished. The rise in the back of 55 has been risen I fathom 2 ft. 6 in., now set at 60s. per fathom. This rise is in the killas under the lode. The winze under the 45 sank 2 fathom 3 ft. 0 in. now set at 60s. This is also in the killas under the lode for the sake of communicating as quick as possible. The 32 fathom level cast on new lode has been driven I fathom 5 ft., now set at 60s. per fathom; this end produces some tin, but is not rich. The 45 east has been driven I fathom 3 ft., set at 65s.; this end also produces some tin, and is very kindly. The back of 45 under the lode stoped 6 fathom 3 ft., and the lode taken down to the height of the present back for £12, and as the lode is now softer than usual, we have set to rise on the lode at 40s. per fathom; the lode still produces tin stuff of the same quality as for some time past, which can now be raised at a less price. On a branch at the 22 fathom level, we have driven 2 fathom 2 ft. 10 in., but have now suspended it, and intend to put the men to work on the main lode at the 22; we have set one pitch in the back of the 32 fathom level, at 12s. and one in the bottom or the 12 fathom level at 13s. 4d. We hope to resu

On a branch at the 22 fathom level, we have driven 2 fathom 2 ft. 10 in, in our part of the control of the cont

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ground in Grout's engine and whim shafts is more favourable for sinking them speedily since my last report, and the cross cuts at the 15 fathoms level north and south of those shafts, to cut Trewithen north and south lodes are extending in favourable killas. In the other parts of this mine there is nothing new to notice since the 28th ult.

Personan Consols Mining Confany, Jan. 4, 1836.—We are getting on with our work in the engine shaft, and shall commesce to sink helow the adit as soon as possible. Modge's lode is still large in the eastern end at the adit level, but does not contain so much lead ores as it did last week. We have not yet seen Anthony's lode, in the cross cut, which we are driving northward from Modge's lode, but the alteration in the ground indicates that we are drawing nigh to it. Westward on this lode we have a promising lode composed of leed, mundic, and white spar. The masons are making good progress with the engine house, dec.

dic.

SOUTH WHEAL LETSURE MINING COMPANY, Jan. 2, 1836.—We find but very little alteration in the ground in our engine shaft, the water however is increasing, but we hope this month to complete a 10 fathom level below adit. The walls of the counting-house are finished, and all other erections are in a forward state.

REDWOOD CONSOLA MINING COMPANY, Jan. 4, 1836.—The ground, in extending the 20 and 30 fathom levels east of Johnson's shaft to cut the lend lade, continues as stated in my hast report. We are ainking the Double Whim shaft below the 10 fathom level on Johnson's lede,

which is large and promising. The engine shaft is sinking in Killar rather more favourable than noticed in my last. In extending the adit north of the North Whim shaft to cut the Holmbush lodes, the killas is of a promising description, though a little harder than we have hitherto experienced, but I consider this alteration to be temporary.

WM. Pathersen.

East Cornwall Silver Mining Company, Jan 4, 1836.—I beg to inform you that our monthly setting took place on Saturday last, 2d inst. We sat a new shaft on Wheal David adit, 70 fathom west of Gilbard's shaft by 4 men, to be called Stainsby's shaft, and which will require a cross-cut north of 5 fathom, to cut the lode at the adit level, price £15 per 10 fathom. The Wheal David adit end was set at 30c. per fathom stent, 10 fathoms or the month by 6 men.—Wheal Georgians adit end east was set to 4 men at 45c. per fathom, stent 8 fathom or the month.—Wheal Emily adit end west was resumed and set to 4 men at 45c. per fathom, stent 3 fathom or the month.—Wheal Firgin adit end has been stopped and also the rise, and the men put to drive a cross-cut from the adit to come under Snell's shaft, at 60c, per fathom, by 6 men, stent 2 fathom and 4 fect. This stent will come immediately under the shaft, from whence we shall begin to rise. The lodes in Wheal David end are again taking off or separating from each other—they are both kindly. The south lode 18 inches big with a leader of spar, mundic, copper, and silver. Wheal Georgians adit end is kindly for silver, whole lode 32 inches big, and leader about 6 inches big. Wheal Emily adit end has not been touched since our report of the 21st ult.; it is remarkably promising. Wheal Virgin adit end has been stopped for want of air, being full 126 fathom from Warwick's shaft, both the end and back are very kindly. We have had no further account about our castings for the engine. Our capstan rope has been brought on the mine this evening.

engine. Our capstan rope has been brought on the mine this evening.

J. Budon.

English Mining Company.—Great St. George, Jan 3, 1836.—You have accompanying the usual documents for the month of November, and the setting reports for January, 1836; by the latter you will see that 8 men pitches have been set. In any firther information in this or in the tutwork department of the mines, I must beg to refer you to the reports. We sample to day 317 tons.

British Copper Mining Company, Jan. 6, 1836.—I find that we have opened on the course of the lode in the 32 fathoms level 32 fathoms 4 feet 8 inches; in the 42, 13 fathoms 4 feet; and have sunk in the New Western shaft, 26 fathoms. The lode in the end and back of the 42 east, and also in the back of the 42 west is from 3 to 5 feet big, and will produce on an average about 2½ tons of ore per fathom. The lode in the end and back of the 52 cast is 4 fathoms wide, with 3 tons per fathom; in the end it is much improved, being 3 feet wide, a great deal softer and kindlier than it has been in any part of the lode we have opened to the south of the slide. After minutely examining every part of the mine on Friday last, the day before our setting, I concluded in my own mind, that the appearances are much better than they have been from the commencement, or, in the language of one of the labourers, "the best vein this working." The general hard, ness of this lode scems to be the only thing against us. Enclosed you have an account of the sale of a small parcel of tin, you will, therefore, debit me in my account current with 461. 2a. 1d.

James Stephens.

FOREIGN MINES.

Brazilian Minino Company, St. Antonio, Oct. 18, 1835.—We continue to proceed in the mine as detailed in my last. The north-west end is now only one foot wide. The walls are yet most defined, therefore hope it will again open out; the stopes present the same favourable appearance. Enclosed, I beg to hand you Gold Report from the 4th to the 17th in-

Gold return from 4th to 17th Oct. inclusive. . 111bs. los. 4dwts. 21grs.

Gold return from 4th to 17th Oct. inclusive. . 111bs. loz. diwts. 21grs. IMPERIAL BRAZILIAN MINING COMPANY, Gongo Mine, Sept. 9, 1835.—Since our report of the 29th ultime, our gold produce for the washinghouse has been from the bottom of the 34 Iathom level, east of Lyon's shaft, and from the back of the 14 Iathom level, east of Goldsmid's shaft, the stuff from these, and all the other backs now working, are put to the stamps. Since our last, we have met with the soft channel of ground in the 48 Iathom level, so that we were obliged to stop the end mentioned in our last, and bring the men back about 9 feet, to commence a new end a little further to the west; we still hope, in a short time, to communicate this level with Skerrett's shaft. In the 21 and 14 Iathom levels, west of Aveline's shaft, we have favourable ground, and the vein shows a little gold from these ends. In the 21 and 14 Iathom levels, west of Williams's shaft, the vein is poor. The 27, east and west of Stokes' shaft, the vein shows a little gold. We put some of the stuff from these ends to the stamps, and it produced a little gold. Since our last, we have commenced a rise from the north cross cut, east of Bayly's shaft, the 41 Iathom level, to prove the jacotings in that part of the mine. We are still clearing the 7 Iathom level, east and west of Shore's shaft, the stuff from those places pays well for stamping. At the "Preza Grande," we have still the same number of English and black men there, but we think to complete this work in 3 or 4 days more.

to prove the jacutings in that part of the mine. We are still clearing the 7 fathom level, east and west of None's shaft; the stuff from these places pays well for stamping. At the "Preza Grande," we have still the same number of English and black men there, but we think to complete this work in 3 or 4 days more.

Wh. Theodoning.—Wh. Bray.—Wh. Collings.

Sept. 19, 1835.—Since the date of our last report, which was on the 9th inst., our produce of gold for the washing-house has been from precisely the same places as therein mentioned, and we have still a little gold in sight in the bottom of the 34 fathom level, east of Lyon's shaft, the other backs now at work are poor, but produce gold at the stamps. The shaft which we are now clearing from the 7 fathom level, and from the 24 fathom level, and from the 24 fathom level, and in the end of the 48 fathom level case cut, towards Sherrett's shaft, is at present very soft, but we are still able to proceed slowly therewith. There is no alteration to notice in reference to the other parts of the mine.

Gongo Saco, Sept. 29, 1855.—Since our report of the 19th inst., our gold produce has been chiefly from the bottom of the 34 fathom level, east of Lyon's shaft, and from the back of the 14 fathom level, west of Gold-smid's shaft. From the other backs now working, we have no gold at precent for the washing-house, although the stuff from those backs produces gold at the stamps. In the 48 fathom level case cut, towards Sherrett's shaft, we are obliged to stop the two ends, which were about 2 fathoms apart, in consequence of the wet and soft ground. On the 23rd inst. we commenced another end between the abovementioned ends, hoping these ends will have some effect towards draining our present and now at work; there is about 3 fathoms more to drive to reach the shaft. In the 21 fathoms level, west of Aveline's shaft, we have a ovin that shows a good ample of gold shen washed. At present, we have no other particulars to communication.

Gongo Mine, Oct. 1, 1835.—Permit us to lay

eted from this end to Aveline's shaft by a cross-cut. Several hundreds libbles of staff have been cleared from the old workings in the back of effected from this end to Aveline's shart by a cross-cut. Several monetose of hibbles of stuff have been cleared from the old workings in the back of the 21 ft. level, between Lyon's and Aveline's shafts, which has paid well for stamping. At Shore's shafts the 7 fathom level has been cleared and repaired west 10 fathom 3 ft. and east 8 fathom 3 ft.; the stuff from this level has paid for clearing. The side level in the 34 between Gibson's and Bayly's shafts has been completed. The 27 fathom level at Stoke's shaft on the north part of the jacotinga has been driven west 17 fathoms 1 ft., and east 16 fathom, in both these ends the jacotinga has been poor, but shows a little gold when washed, and produces a little at the stamps. The 41 fathom level east of Bayly's shaft—here we have commenced a rise during last month, in the back of the cross-cut end, on a vein which shows a good sample of gold, and have risen it 5 fathom 4 ft. A new shaft (named John's shaft) has been sunk'about 154 fathoms distant from that of Shore's; it is 16 fathom 3 ft. deep, it is intended to be holed to the 7 fathom level, when we have cleared and repaired it, the level; so far west, as that shaft for the purpose of drawing up the stuff for stamping formerly broken there. A cross-cut has been commenced at the surface during the last month, about 17 fathoms south of Da Gama's shaft; this is intended to take off a stream of water, which at present falls through that shaft into the mine, and greatly impedes our workings in the western backs, it is driven 9 fathom 1 ft.; it is further intended to proceed northward with this cross-cut to prove the north part of the jacotinga.

**Retreat's chaft has been sunk to the horizon of the back of the 48 fa-

that shaft into the mine, and greatly impedes our workings in the western backs, it is driven 9 fathom 1 ft.; it is further intended to proceed northward with this cross-cut to prove the north part of the jacotinga.

Sherrett's shaft has been sunk to the horizon of the back of the 48 fathom level. The 48 fathom level: the western end of this level has been driven 3 fathoms 5 feet. A rise has been completed from this to the 41 fathom level cross-cut, and a cross-cut commenced, and driven south 1 fathom 9 feet 6 inches. This cross-cut is 1 fathom 1 foot east from the end above referred to; it has been stopped since the 13th of August last, when we commenced a new cross cut towards Skerrett's shaft in the same horizon. In this cross-cut the ground proved favourable for working for the space of 4½ fathoms, where it proved to be very wet and soft; so much so, as to prevent us from proceeding therewith, when we commenced another end, back from the last mentioned about 1 fathom 5 feet, where the ground was firm. In this end we were able to proceed about 3 fathoms more, provided we could continue driving it. In order to hole it to the shaft, we were again obliged to close up the end, for the same reason as formerly; and at present we are endeavouring to drive an end between the two above mentioned, and even here we find it very difficult to proceed. The additional measurements for your ground plan and sections, with our

more, provided we come shift, we were again obliged to close up the end, for the same reason as formerly; and at present we are endeavouring to drive an end between the two above mentioned, and even here we find it very difficult to proceed. The additional measurements for your ground plan and sections, with our propositions for the ensuing quarter will, if possible, be prepared against the post of the 19th inst.

W. TREGONING, N. HARRIS,
W. COLLINGS, W. BRAY.

P.S. Oct. S.—Since the date of the above, our produce of gold for the washing house has been from the back and bottom of the 34 fathom level north lode cast of Lyon's shaft. The 48 fathom level cross cut has become, if possible, more soft; and a large quantity of stuff having from time to time fallen from the back of those cross-cuts in that horizon, so much so, that the ground is crushed even from the 48 to the 34 fathom level; and the last mentioned being the adit which carries off the water drawn from Skerrett's shaft by the engine we are obliged to suspend our workings for the present in the 48 fathom level, and commence a side adit in that of the 34, lest, in case of another run in the back of the 48, it might run down both the present adit and the shaft, and consequently oblige us to stop the engine, the result of which would doubtless be a great disadvantage. We accordingly commenced the side adit yesterday. Not having any thing more very particular to mention, we conclude our letter, having the honour to remain,

W. TREGONING, W. BRAY.

From the 29th September to the 17th October, 1835—17 days, 1bs. oz. dwts. grs.

Stamps—28 7 8 20 In all 54 8 0 21

Colonian Mining Association, Bogota, Oct. 16, 1835.—We shall have nothing to remit the Board by the present packet, but we confidently expect that, by the ensuing, we shall have the satisfaction of remitting the full amount of the Marmato returns for September; and should any bullion come forward from St. Ana and Pamplona on account of the Board, we shall remit the corresponding part of that also. (Th

The lode in the Cruzada and still continues promising; but in Dunstone's Red it has decreased. The ground has become very hard.—The Cruzada End now being driven 235 fathoms into the hill, I found air blowing so fast that it was difficult to keep the candle alight. I believe this was owing entirely to a great quantity of water falling at that time through Williamson's rise, about 15 fathoms east of this coul. The Lade is the Sebastiana End continues poor; but the ground has become more favourable for breaking. In San Pedro and San Jose Ends the ground, as well as the lode, has become much harder, and the latter less promising. Hilliamson's Rise.—The communication with it and the Sebastiana level was effected on the 18th, by which means a good draft of air was produced in this and San Pedro end.—2nd Crusavadi Siak was made to communicate with the San Nicolas level on the 18th: after this communication was effected, 9 natives were immediately ordered to sink the same wintse in the bottom of San Nicolas level, in order to meet the fane hunch of ore at present in the Escolastica End, and to lay open workings for extracting the ore.

3rd Crusavadi Siak was commenced on the 24th of September, between the 2nd Sink and St. Vincout's Rise, in order to open quick the workings upon the fine bunch of ore at present in St. Nicholas End, for extracting it. Stopes have been and still are continued for breaking ore without any particular occurrence.

English Missers.—I am happy to say that the newly arrived English miners who have joined this establishment during the past month, are on an average a body of picked men; they not only work weil, but they

Should Miners.—I am happy to say that the newly arrived singless there who have joined this establishment during the past month, are an average a body of picked men; they not only work weil, but they nark down. The autire miners have also worked regularly and antisfacterity. A great number of Peons is constantly applying for work.

Caparread Lode, and 3 Patacen Lode.—I have surveyed the workings.

upon both lodes, and shall state more particulars about the proceedings thereon in my next, and only add that, although the lode in the Caparrosal Adit Level End has quite disappeared, it is not yet discontinued. The Caparrosal Acequia Level has taken a sudden turn, and has become, within the last few days, somewhat promising.

The San Antonio End, which has been discontinued since May, 1834, I again commenced driving on the 18th; the lode has become a little more promising than formerly, and consists of one foot of fine Pyrites mixed with Caliche.

The San Antonio Crassiant Santal

mixed with Caliche.

The San Antonio Cross-cut South, which was discontinued on the 27th of July, 1832,) vide my Report of the 2nd of August, 1832), on account of having cut into the San Antonio or Patacon Lode, I have again continued since the 18th, as I had found, by my survey, that the cut at that time being reported to be five feet wide, consisted entirely of Caliche, mixed with a fine grained branch of Pyrites is not the Patacon Lode, nor the sume lode, upon which the present San Antonio End is driven. I shall, in my next, be able to state more about it.

4th Candado Lode.—The Acceptia Level Shaft has been sunk again 2 fathoms; the ground is favourable for driving and requires timbering. I think in 2 fathoms more we shall meet with the main Candado Lode. The heat still continues excessive.

Adit Level.—The northern branch in this level has been proved, as I stated before, to be not worth noticing. In the present end, another

Add Level.—The northern branch in this level has been proved, as I stated before, to be not worth noticing. In the present end, another lode has been cut, and I rather think it is the main lode, although, according to the survey, it ought not to be so; still it may be so, if the lode has taken a greater underlay, of which I shall get some more information in this month.

Reduction Officer's Report for September.—The operations in this department for Southernber, have produced [10] involve which resident

tion in this month.

Reduction Officer's Report for September.—The operations in this department for September, have produced 10 ingots, which weigh together 106 lbs. 4 oz. 13 dwts., and which contain, by my assays of fine gold, 68 lbs. 8 oz. 5 dwts., and of fine silver, 35 lbs. 9 oz. 10 dwts. The loss per ton in this whole treatment appears at 50.54. The consumption of Mercury amounts to 5,558 lbs. troy, or 4.17 parts—382 lbs. avoirdupois. Produce of fine gold per stamp head, 20 oz. 3 dwts. Fine gold recovered from each ton treated 15.42 dwts. Concentration, prior to amalgamation, as 180 to 100. For September have been stamped,

TONS. CWT.

9 968 11 with an actual produce of 15 97 dwts. per ton.
10 0 ditto. Rough ores 968 11 Tails 100 10

Total 1069 15 42 ditto.

The produce per head of mineral stamped is rather low, which is partly accounted for in consequence of the Mill Union (upper 18 head,) stamping so much tails; during which, of course, finer grates must be applied, and other minor interruptions in the other mills by changing grates which cannot always be particularly noted.

From Mr. Williamson, 13th. Oct.—The New Village continues to in-

From Mr. Williamson, 13th. Oct.—The New Vitage consists to crease rapidly.

The Mine.—Our operations in this department are going on very satisfactorily, and every attention paid to the breaking and extracting of mineral. The quantity of ores conveyed to the mills from the 25th ult. to the 12th inclusive amount to 720 tons, of which, up to the date hereof, 700 tons may be computed as stamped. Mr. Degenhart will, I expect, be able to extract 1200 tons this month. The new men apply themselves assiduously to their various daties, and the native miners also are sendy and regular in their attendance. The Weather has during the last few days set in fine, but it does notappear to be settled. Stamp heads at work to the 12th inclusive, 46 heads at 37 blows per minute.

October 20th.—The Mine Department. The Tramroad in the old Cruzada level, from the junction of the N. Cruzada level, has been taken as a control of the level will in future be used only as a foot way.

Cruzada level, from the junction of the N. Cruzada level, has been taken up; this part of the level will in future be used only as a foot way.

Candado Adit Level.—In the eml the lode has been cut, and accord-

ing to the underlay there is reason to suppose that it is the main-lode, although small and divided at present; when Mr. Degenhardt can spare time to make a surrey he will be able to ascertain this point perfectly.

The Weather.—We had last night a fine fall of rain, previous to which

there had been no raim for nearly a fortnight.

Stamp Heads at work from the 25th uit, to yesterday, 45 at 36 blows per minute; the quantity of mineral stamped about 900 tons to the 19th

inclusive.

From the Minutes for October.—Weekly Peons. In the course of another week or two we shall be able to reduce the number of surface peons. The list of mountain peons has lately been rather high owing to the necessity of employing a large force to bring down timber for the new dressing floors, office, and projected shoot for conveying the mineral from the Sebastiana Extraction Level to the Cruzuda floors.

the Sebastana Extraction Level to the Crazada Hoors.

Summary of Proceedings for September.

Returns 68 lbs. 8 oz. 5 dwts the gold, obtained from 9684 tons of ore, 1005 tons of tails, Stamped by 404 heads, at the rate of 164 owt. per diem, speed of stamps 40 blows per minute, fall of rain 104 inches, ore raised 1100 tons, miners employed 22 English and 154 natives, ground expended 240 fathoms 22 feet.

Produce per ton of ore stamped 13.42 dwts. of fine gold, produce per ton, stamp head 20 oz. 3 dwts., Concentration 1.80, loss per cwt. in the whole process 50.54.

October 19th.

ton, stamp head 20 oz. 3 dwis., Concentration 1.80, loss per cwt. in the whole process 50.54.

Average number of heads at work to date 45, speed of ditto 36 blows per minute, ore stam ed to date 900 tons.

Mocauras and Cocaes Minino Company, Sept. 9, 1835.—It was stated in the postscript of the last report, that we had cut a vein at Halfield's shaft, from which we had taken some good stamps of gold; since then we have suspended the end, and have been rising on the vein towards the old workings of the Rasgao. We have taken stamps from it daily, the whole of which have been very favourable. We have about 14 fathoms to rise on this vein before we reach the old workings, which is necessary to be done as soon as possible, for ventilation, as it will be requisite to employ a great number of hands here in extending on the different veins, and if we should find this part of the eld mine not yet fallen in, our object will be very soon effected, viz. a thoroughfare from Antonio Dias to Halfield's. We have made but very little progress in rising on this vein, in consequence of being obliged to alter the timber work in the level, and to make other preparations to commence the rise, which will account for the little produce from the vein to-day. Since the last report, I am happy to inform you that there is a great improvement at the Antonio Dias mine. Some samples were taken from the first vein on Saturday last, one of which contained 27ths. of jacotinga, and produced 3 oliavas, less 2 grains of gold; several others have been taken subsequently, and the results have also been very favourable, scarcely inferior to the first. This improvement, however, will not affect our clearing up to-day, as the shortness of the time would not allow us to get any stuff from the vein in time to be washed up, but I hope by the next post to be able to report an increase to our produce. I find from the very soft nature of the jacotinga risen from the lode at Halfield's, that it is useless to put it through the stamps, there being scarcely any revious to its going over the skins; the fine stuff will of course be carried brough with the water, and what remains will be put into the stamps. This I hope will assist us in our produce, as the stuff from the different through with the w through with the water, and what remains will be put into the stamps. This i hope will assist us in our produce, as the stuff from the different mines is more than the stamps can get through with otherwise. The rise in the back of the shallow adit has been holed to the Bandeira mine, and I think leaves no doubt as to the ideality of the last lode cut in the former place. We are now driving this level cast towards the Cavaco on the course of the lode; the men are promised a reward extra for labour, and you will find by the annexed list that a great deal of work has been done during the last ten days. The lode in this level, as well as the Bandeira, is very kindly, and in both places the samples show gold. The lode in Mardonnell's 2l fathom level has still a very kindly appearance, but is yet very peor; the whole of the stamps taken from it, however, show gold. At Oxenford's 4l fathom level very little has been done, owing to our being obliged to put up a new and more powerful air machine, which is worked by the horse whim. This work is completed, and the mee, again employed in driving the levels. The lode here is large and promising, but very poor. At Waller's shaft we are cutting a plat at the shallow adit level, and making other preparations for sinking the shaft, which I hope will be completed in a few days. In the cross cut the ground has been very favourable, but we are now in chiertic state, which I fear will be more treathlescence to get through. In driving's shaft we have made very good speed in sinking; the water, however, is increasing daily, and the ground

y inch as we go. This shafe is now 21 fathours deep, short of the level of the shallow adit, where, if the prove too powerful. I hope to be able to reach, and to thoms only short or the everal; I hope to be able to reach, and to should not prove too powerful; I hope to be able to reach, and to cross-cut to the heart of the Cavaco mine in time to meet the shallow there, when the stuff from the lode will be drawn up through this and carried to Waller's engine, to which we intend to fix a set of a if we find it necessary. The different surface works go on with spirit. Macdonnell's engine is in course of erecting, but I cannot state the time it will occupy, but shall make the calculations in time

from the stamps from the veins from the samples Total and in The produce of gold from the stamps is 1 0 Do. 2 49 The following list shows the work performed in the last to

Descripti ft. 0 0 Driven 3 Driven Do. rise on the vein
Antonio Dias, 1st vein
Do. 3d vein
Oxenford's 47 fathom level Risen Sunk Driven Irving's shaft

J. HITCHENS.

Sept. 28.—Since the last report we have holed the rise from Halfeld's shift to the old workings of the Rasgao, also the winze on the third vein, at Antonio Dias. We find the old mine in a very dilapidated state, so much so, that we consider the workings there will be of very little assistance to us in getting a communication between the two shafts Halfeld and Morgan's; the impure air which has been so long confined in the old mine, has prevented us from doing but very little on the lode during the last 10 days. We are, however, driving the 50 fathom level at Halfeld, as fast as the air will allow us across the veins. From Antonio Dias during the greater part of the last 10 days, the samples have been very poor, but on Saturday last we took some excellent ores from the first vein, the produce of one from about 30 lbs. jacotinga was 1½ oz. of gold—this is from the same vein; we have been working on at Halfeld's, and which still produces good samples in the bottom of the 50 fathom level there, but we are prevented from working on it by the water. Having taken into consideration the long period which must elapse before Macdonnell's engine can be brought into operation, and after this, the time it will take to sink the shaft down, and to drive a cross-cut to the lode, we have come to a determination to put up a small temporary engine, similar to that at Waller's, it will be a 20 feet wheel, and built on a stamp axle, and fixed in the proper situation for a stamping mill; and when it can be superseded by the large engine, it will be immediately applied to that purpose; by this arrangement no labour whatever will be lost. We hope to be able to complete it in about a month, and we are of an opinion that a saving of seven months can be effected by these means, or in other words, that we shall out the Ragao veins at a depth of 12 fathoms perpendicular, or 31 fathoms on the course of the lode, under the deepest part of the old workings, seven months before we should if we were to wait for the competance to t J. Hiren Sept. 28 .- Since the last report we have holed the rise from Halfeld's shall

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pension of it, until the small one now in hand can be completed.

At Irving's the water has proved too plentiful for us to continue sinking the shaft, which is contrary to our expectations, as we were all of an opinion, that by cutting the lode in the shallow adit it would drain the water from the shaft, but we suppose the ground through which it has been sunk, (talcose slate) has formed a dam between the shaft and the shallow adit, and prevented the water from escaping—this has been a disappointment to us, as we expected to have cut the Cavaco veins in a short time from this place. Although the shallow adit has not effected a drainage to any great extent around it, we think it very probable that the lode all above that level in the Cavaco has been drained by it, and on this supposition we have commenced sinking a shaft, or winze, on the course of the lode in the great excavations; this shaft according to information, will intersect the veins at a depth of about 30 fathoms, and we hope, from the favourable state of the ground here, if the water will allow us to proceed in sinking, to be able to reach this depth in about 2 months, but should it here also prove too plentiful for us, we have no

allow us to proceed in sinking, to be able to reach this depth in about 2 months, but should it here also prove too plentiful for us, we have no alternative left, but to wait for the Bandeira mine, which in that case will be the first to reach the veins.

In the lode at the shallow adit there is no alteration—the ground is still hard, and our progress slow. In the Bandeira, however, which is about 10 fathoms before the shallow adit, the lode is promising, and the ground is very favourable for breaking, but all the samples taken from it have hitherto been very poor. In Waller's cross cut the ground is without any material alteration. We have not yet done much towards sinking the shaft, on account of its being necessary for the men's safety, to put in some extra timber work. In the lode at Oxenford's 47 fathom levels there is no alteration, all the samples taken from it have proved poor. In Macdonnell's 21 fathom level is very large and promising, but we are sorry to say there is no improvement in the samples from it.

J. HITCHENS.

F. HALFELD.

THOS. TRELOAR.

JNO. GILBERT.

ST. JOHN DEL REY MINE—Mining Report for September, 1835.

JNO. GILBERT.

St. John Del Rev Mine.—Mining Report for September, 1835. We have this month, like the preceding one, been preparing ourselves for the rains. Several Works yet remain to be finished. Shed for the whim. Stable for the whim horses, and sheds for Crickitt's and Vinagrado shafts. On the 14th, we divided our mining force into two corps, since which our mining operations have gone on with more spirit and regularity.

since which our mining operations have gone on with more spirit and regularity.

Mine. Bahu Shaft. A piece of timber 25 feet 10 inches long by one foot through, alluded to in my last, was placed across the shaft on the 19th for a penthouse, and for hanging the lower lift of pumps, the former work has not been completed, as we intended, for want of timber. Six men day and night the former part of the month, and four the latter, stationed there.

tationed there.

Bahn End West. Has been continued regularly during the month, no diteration in the lode. Four men day and night.

Bahn Stopes. Twelve men at the commencement of the month, and ince the division of our force eight by day and six by night.

East and West Pillers. Since the 14th, we placed all the hands we ould advantageously (eight men day and night) on the east pillar, and on heart two men day and night.

could advantageously (eight men day and night) on the east pillar, and on the west, two men day and night.

Crickit's SAnft. At the early part of the month three English and four labourers were employed blasting down a piece of overhanging rock, which was considered unsafe to work under; on the 5th. we commenced uncovering the shaft, this occupied us till the 11th. in consequence

rock, which was considered unsafe to work under; on the 5th, we commenced uncovering the shaft, this occupied us till the 11th, in consequence of the large pieces of rock and quantity of earth which had fallen on it. The shaft has been raised three sets of timber thirteen feet, and a tackle fixed. Fire days were occupied clearing to the bottom of the shaft, and on the 25th we began sinking to the level of the Bahu EndWest. We have yet about eight or ten days work to finish filling up the old bottoms, this job we intend for the new negroes that are daily expected.

Finegrado Shaft. In this work no discovery of any importance has been made. The new bob was completed on the 10th, and the engine went to work the same day, from which time, till the 22d, two English miners and five labourers were employed clearing the earth which rail while the end was idle, and also that which had been previously left there. From the 22d to the 28th we drove 22 feet 5 inches (10 feet 5 in. N. 22 deg. E. and 12 feet W. 35 deg. N.) our object being to get into firmer ground in order to sound the shaft for the purpose of rising to the old bottoms on a lode we had cut at the bottom of the shaft, and which we imagined was the one we were in search of; this we found impracticable (from the hard stone or killas taking a different direction to their we expected) without making a more sudden rise than we intended, and thus losing several feet in our level, which it was desirable to avoid, from the uncertainty of the depth of the eld workings, of which we cannot obtain any divincet information, and also being obliged to blast one side of the end, which would probably injure our shaft. Under these ejecum-stances, we decided on the 19th on opening on the lode from the N. W. corner of the shaft; this, although it was the nearest in a direct line to the point we wished to arrive at, we had all slong underwoured to avoid, from the crushed and wet state of the ground; however by care we see

bering a little gold.

Lection Works. The supply of stone was but indifferent at the saing of the month. Since the 14th, the Esperanza, Hosannah, and its, have been kept regularly supplied. The Capellard was put to at an the 24th on the staff from the Vinagrado shalt, and since the lab has been stamping regularly on the same mixes with stone from Bahu mine. The Houiza is still under repair.

The Washing. Commenced on the 1st and finished on the 11th, suppling nine men and six boys ten days.

Response have been employed nearly all the month on the roofs of the law Grande and hospital, and a few days while raising, plaistering, and sinewashing.

Masses have been employed nearly all the month on the roofs of the iss Grande and hospital, and a few days while raising, plaistering, and hierarching.

Clarcoal. The shed in which the labourers sleep was destroyed from the thatch catching fire while burning the underwood, this occupied all the men two days rebuilding. Several holidays also occurred this month, and the free labourers as usual absented themselves.

Sack on hand from last month, thirty-six pits made this month.

Pits. Consumed thirty pits or 218 mule loads, stock on hand 30 pits.

Force. Twenty-one men, two boys, two tropeiros, one fistor.

Mood. In this department very little has been done. At this season of the year the bullocks are generally weak and sickly from enting the roung grass which springs up immediately after the dry pastures have been burned; it has been deemed advisable in consequence to give our billocks are few weeks rest in order to recruit themselves. The timber we have required for the carpenters has been supplied by a hired car with a first of our cattle assisting. The carmen have been employed in repairing the curral and mending roads. 29 pieces of timber brought in 3905 cubic feet, and eight loads of poles. Force. Three men and four boys, carmen. The making. The unsettled state of the weather decided us on suspending for the season making more tiles. A shed has been built over the kiln, and every precaution taken to preserve the establishment from a significant making. Two hundred and seventy feet of old have been repaired and made good for the purpose of taking timber to the mine. The road hitherto in use for this, passing over the site of the new stamps, readering this work indispensable. Three men and four women assisting eccasionally.

Carpenters were occupied at the beginning of the month making the sew bob and stand for the Vinagrado shaft. And since the 14th all have

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restering this work indispensable. Three men and four women assisting occasionally.

Carpenters were occupied at the beginning of the month making the see bob and stand for the Vinagrado shaft. And since the 14th all have been busily engaged fixing the heavy timber across the Bahu mine, for the poppet heads for the pullies, as this was a heavy job we were auxious is complete it while the weather was fine, as from the nature of the gound had the completion of this work been deferred till the rainy seather it could not have advanced so rapidly, and might have been stended with danger to the workmen. The erection of the new stamps, and the repairs of the houiza have in consequence been postponed for the present. I hope in a few days to be enabled to place the greater part of our force on these two works.

Work completed this month. One milyard turned, one window frame, one new hob and frame, with brasses, iron pins, &c., sixty feet saddle tack launders, one new horse cart, one tackle, upstanders, bars, &c., three new kibbles, one garden gate, two bar doors for slaughter house.

Work in hand. Horse cart, saw pit and roof, new stamps, repairs of houiza. Fixing poppet heads.

Sundry jobs. Squaring and sawing timber, pitching and repairing stamps, horrows and barrow road, horse and bullock carts, making maliet and pick hilts.

Force. Three English, three men and two boys native, seven slaves, for sawyers.

Three English, three men and two boys native, seven slaves,

Force. Three English, three men and two boys native, seven slaves, two sawyers.

Smith's work completed. Four chisels, one pump bend, eighteen plates, forty bolts, sixteen spalling hammers, fifteen cutters, eighteen washers, five glands, ten mallets, 136 new boyers, 270 old ditto new steeled, 7796 ditto sharpened, one chick, two spikes, two prongs, two half moons, one nipple pin, two pair of joints, three backet hoops, one clasp, one spanner, two hook handles, four bends, one pair of hinges, one claying ber, one smith's square, one mine sledge, four stud pins, one pair of checks for tackle, two boots bends, three kibbles bound, one scraper, two gads, two cliffs.

clasp, one spanner, two hook handles, four bends, one pair of hinges, one claying bar, one smith's square, one mine sledge, four stud pins, one pair of cheeks for tackle, two boots bends, three kibbles bound, one scraper, two gads, two cliffs.

Work in handle. One iron kibble and a pair of yokes.

Sundry jobs. Repairing and sharpening tools. Cutting up from and steel for boyers. Force.—Two English, two natives, eight negroes, and eight ditto at the mine forge sharpening boyers and tools.

Morro Vetho, 2d. Oct., 1835.

J. R. A. Catckett.

Morro Vetho, Sept. 26, 1835.—I beg to refer to my former report of the 21st instant, since which I have again made four experiments by roasting and otherwise.

1st. Of the refuse at the Esperanza works I took 24 lbs. weight, which I divided into two equal parts; 12 lbs. were roasted, by which their weight was reduced to 9½ lbs., and this was then pulverized, concentrated, and amalgamated; the result was 5 grains of gold, so that 100 lbs. would give 41½ grains of gold.

2dly. The other 12 lbs. were pulverized in their original state, concentrated, and amalgamated; the result was barely 18 grs. of gold. Possibly this trial was not quite fair, as I rather think the quicksilver, which I obtained from the magazine, and made use of in this experiment, was not so intermixed with gold as that used in the preceding one, and I shall therefore have to repeat it.

3dly. The experiments of the 21st instant were repeated, viz.—I took 28 lbs. as before, 14 lbs. of which were roasted, and then only weighed 10½ lbs., and on amalgamation yielded 34½ grs. of gold, consequently 100 lbs. would give 3 30½ grs. of gold.

4thly. The other 14 lbs. were worked in their raw state, and on amalgamation yielded 16 grs. of gold, or 152 grs. gold per 100 lbs.

It will be observed in these experiments, that by the roasting process we gain 1 50½ grs. of gold in 100 lbs. of refuse, at any rate, more gold is obtained by this method. Roasting, on the present plan, is very tedious, and only adapted to small samples

SUMMARY of Four Experiments made on the Calcination of Auriferous Pyrites from the Bahu Mine; the results being obtained by Amalgamation.

Sept. 21.		Uncalcined Pyrites.	Gold.	Calcined Pyrites.	Gold.	Gain or loss by Calcination.
-		Iba.	grains	Ibs.	grains	
Sept. 21.	Pyrites leavings from the ulti- mate washing up of the tank.	14	15	14	35.	
26	Ditto ditto	14	16	14	34.5	
Det. 12.	Ditto ditto	14	19	14	34.	
16.	Ditto, of September	15	23	15	47.	
	the year and make your	57	66	87	156.5	-127.0 gain.
Morro	Velho, Oct. 18, 1835.				F.	X. Hornsons.

COPIATO MINING COMPANY, Aug. 16, 1835.—I have the pleasure to wait upon you with bill of lading for 195 tons, more or less, of copper ores, thipped per Emma and Matilda, Captain Jamser, for Swannes; this cargo is a mixed lot, but will, I hope, yield well on the average. I have 150 tons left at the Chaera, 180 at Checo, 300 at Puquios, and 60 tons in the Hornito, altogether about 700 tons, within range of carriage in the opring, which will commence in October: carriage from Morado, San José, and Las Animas, cannot take place upon any scale until the rains set in. In 15 days more we shall have completed the ploughing and sowing all our lands, and the face of our estates now wears a very promising appearance, there being plenty of snow in the Andes, which secures abundance of water for irrigation: in a few weeks I shall commence the new water course, which will bring into cultivation a large tract of land on the north side of the river, and greatly augment our pasturage; indeed, the value of these colates become every day of increasing importance. I have put in work

13

-153.8 gai

Oct. 21. Pyrites leavings from the ulti-mate washing up of the tank.

11 mines at Paposo, and 8 in Las Animas, where things are searing a very promising appearance. I have also contracted for another mine in Puquios, yielding very rich bronze ores, to be delivered at the mouth of the mine at about £3 3s. per ton. The Checo mine is giving at present about 60 tons of ores a mooth.

Valparaino, Sept. 23, 1835.—In addition to 147 mules, lately purchased for the use of the mines, I have contracted for 200 more to be delivered in Santiago a month hence, to be available for operations this summer; we consider this will render the establishment more independent of hired muleicers, and facilitate the carriage of ores. Mr. Bingley writes us that he will require 4 or 500 tons of shipping in all November.

MEXICAN FINANCES.

State of the Foreign Debt of Mexico on the 1st of January, 1836.

			Principal.	Annual In- terest.	Arrears.
	Actual,	5 per Cent.	£2,130,000 3,150,000	£106,525 189,055	£159,750 283,500
1836.	Deferred	42	£5,280,000 640,000 950,000	£295,580 32,000 57,000	£443,250
1836.	Ditto	5 " 6 "	£6,870,000 426,000 650,000	£384,580 21,300 . 39,000	1
	Principal .		£7,946,000 443,250	£444,880	
		Total	. £8,389,250		

The principal of the Foreign Debt originally contracted by the Mexican States, and now remaining in circulation, amounts to £5,280,000, since which there has been created £1,590,000 additional stock for arrears of dividends due in 1831, interest to commence from the 1st of April next; when a further issue will take place of £1,076,000, for one-half of the annual interest due on the active stock at present in circulation since January 1831, and which will make the total of the Foreign Debt due by Mexico, including arrears, to amount to nearly \$\frac{3}{2}\$ millions sterling, requiring an annual remittance of at least \$2\frac{1}{2}\$ millions of dollars to provide for the interest that will then be due on the rame.

The revenues of the Mexican States have of late years returned the treasury a gross sum of between 12 and 13 millions of dollars, from which about \$1\frac{1}{2}\$ millions must be deducted for the charges of collection, leaving a net income of from 10 to 14 millions of dollars, or about 2 millions sterling. The ordinary expenditure of the Mexican Government may be estimated at \$1\frac{1}{2}\$ millions of dollars, exclusive, however, of any provision for the interest due on the ioveign debt; but in consequence of the extra expenses attending the civil wars, the army department alone has of late years absorbed the whole of the ostensible revenues of the country, the expenses of this branch having amounted last year to \$1\frac{1}{2}\$ millions of dollars, occasioning thereby an excess of expeuditure over income of between 4 and 5 millions of dollars, and which the government have been obliged to raise by anticipating the produce of the duties to be received at the various maritime custom-houses.

The principal sources of the revenues of Mexico arise from the duties levied upon imports and exports, and which have amounted on the average of some years past from \$5\frac{1}{2}\$ up to \$7\frac{1}{2}\$ millions of dollars annually; a very

various maritime custom-houses.

The principal sources of the revenues of Mexico arise from the duties levied upon imports and exports, and which have amounted on the average of some years past from 54 up to 74 millions of dollars annually; a very considerable falling off in this branch must, however, take place, owing to the high rate of duties, which give such encouragement to smuggling in the northern parts of Mexico; this evil will no doubt increase still more when Texas becomes an independent state, as is likely shortly to be the case. The monopoly on the sale of tobacco has produced as much as a million of dollars a year to the treasury, but the expenses of administration absorb the greater part of the profits arising from this branch. The other ordinary sources of the revenues of Mexico arise from the post-office, stamps, lotteries, gunpowder, and the monopoly of salt, producing allowather fixms 500 to 740,000 dellars a year, whilst the contingent of the states, which used to bring in an income of nearly I millions of dollars, will probably be abolished altogether under the new constitution.

According to the original contract entered into, the Mexican Government, in order to provide for the interest and sinking fund payable on the loans raised in England, engaged that one-half of the duties received at the maritime custom-houses, as well as the whole of the revenues derived from the monopoly in tobacco, should be set aside for that purpose; instead of which, however, they have since reduced the quota of the former to one-sixth, whilst that of the latter is excluded altogether. The amount of interest on the foreign debt alone at present execeds 2 millions of dollars a year; and as a sixth part of the import duties levied at the custom-houses of Vera Cruz and Tampico will not in all probability produce more than one million of dollars, those charged on cotton goods being excluded altogether, the bondholders have very little chance, admitting this reserve were faithfully attended to, of ever getting a divi

Estimated Expenditure of the Mexican States for the present year, ending July 1836.

Home and foreign departments	# 870,000
Justice and Ecclesiastical affairs	
Army *	8,940,000
Navy	1,000,000
Finance and Domestic Debt	3,000,000
	-
	Total 814,300,000
Estimated Net Revenue for the above ;	period.
Duties on Imports and Exports	
	are non

10,505,000 Deficiency # 3,795,000

Excess of expenditure..... 7,500,600

. The expenses of the army in 1835 were 12,400,000 dollars, and will probably be the same the present year.

Falling of Coal in Mines.—When a piece (in pillars) of coal is about to fall, it makes a low crackling noise first, like the gentle noise of breaking a stick. Little pieces of coal, called the forerunners, are generally heard to fall. The person who first hears the notice (and their ears are very quick) cries out immediately "Listen!" and every thing is perfectly still; there is a death-like silence instantly, and if the crashing of the coal continues, they withdraw to a place of security. Sometimes a face or slip sets in, which cannot always be seen. This being a dislocation, will sometimes fall down without notice, and accidents more commonly arise from that circumstance than from any thing I know.—Witness before the Committee on Accidents in Mines.

Steam v. Horses.—It has been said that in Great Britain there are above 1,000,000 horses engaged in various ways in the transport of passengers and goods, and that to support each horse requires as much land as would upon an average support eight men. If this quantity of animal power were displaced by steam-engines, and the means of transport drawn from the bowels of the eurth, instead of being raised upon its surface, then, supposing the above calculation correct, as much land would become available for the support of human beings as would suffice for an additional population of 8,000,000; or, what amounts to the same, would increase the means of support of the present population by about one-third of the present available means. The land which now supports horses would then support men, or produce corn for food."

Lardner's Steam Engine. Steam v. Horses .- It has been said that in Great Britain there

MEXICAN AND SOUTH ANDRICAN BONDS.

MEXICAN AND SOUTH ARVISICAN BONDS.

In Isying before our readers a statement of the actual amount of the various Loans negociated in this country, for the service of the New States of Spanish Americas, and which, including the arrears of interest now due on the same, amount to a sum of spwards of Twenty-five Millions Sterling, it may be well to call the attention of the holders of these securities, to the importance of petitioning the British government to interfere in order to compel these States to fulfil the engagements they originally entered into our contracting their respective Loans in this country; so far, at least, as circumstances will admit.

It is notorious that the major part of the bonds so negociated, stipulate that one-half of the duties receivable at the various custom-houses, of the respective States, are pledged for providing the interest due on the same, whereas both Mexico and Colombia have thought proper to reduce their quotas; the former to one sixth, and the latter to one-eighth, although even these reserves have not been attended to of late years.

the same, whereas both Mexico and Colombia have thought proper to reduce their quotas; the former to one sixth, and the latter to one-eighth, although even these reserves have not been attended to of late years.

Without entering upon the question respecting the utility of these loans to the contracting parties: these States cannot complain of the prices at which their respective loans were raised in this country, their bonds having been sold on an average at upwards of 80 per cent., neither ought our government any longer to shelter itself from non-interference, under the plea that the public were duly cantioned, and that these transactions would not be recognised in our courts of law, as it is the duty of the British government at all times to protect the property of its subjects, whether sent abroad in the shape of merchandize or money. Setting aside, however, these questions, the enormous amount of British capital now at stake in Mexico and South America, imperatively requires the interference of our government, and unless some strong mensures be shortly adopted, there appears very little chance of the bond-holders ever receiving either interest or principal.

The first step, however, towards the consolidation of the governments of the New States of America, is for Spain to acknowledge their independence, for until that power has formally recognised them as independence, for until that power has formally recognised them as independent states, a plea will continually exist for keeping up large military establishments, and which not only absorb the greater part of their ostensible revenues, but are also the main occasion of the commotions which are constantly occurring in those countries. The British government, in the assistance it is now publicly affording to the cause of the Queen of Spain, has an undoubted right to require in return this boon, an act not only of great political importance to Spain, but also of justice towards the British nation, who have such an immense interest involved in the welfare of

public.

On the other hand, as the revenues of these states will not in all Probability for many years to come be adequate, even with the reductions above contemplated, to meet more than half their actual engagements, it may be suggested that it would be an act of policy on the part of bondholders to forego for the present certain portion of their claims for interest, as an encouragement for these governments to exert themselves in duly providing the remainder.



We mentioned in our paper two weeks ego, the state of the paper by means of tapping or boring, was being carried into effect open lands of Rotchell, in the immediate neighbourhood of this town, with our opinion, was well worthy the attention of the agriculturial transfer of the system, though not perhaps this system, though not perhaps by means of tapping or boring, was being carried into effect lands of Rotchell, in the immediate neighbourhood of this tow in our opinion, was well worthy the attention of the series this part of the country, where this system, though not perfectly the mannows, has not, till new, in so far as year gware, tised by any. From the time we first converse with Mr. Rob contractor, and observed his operations, we were of opinion good would result from the gueeral adoption of the principle we now fully convinced that, by the process of tapping in drain is more, both of national and individual wealth, than in sinuse covery connected with agriculture, which has been made for length of time. Already does the experiment at Rotchell she face sufficiently firm and dry for the plough, where, but till faportsman might well have calculated upon disologing a suipe, perhaps be folly to say that all wet soils might be advantage degmed by this process. In some soils, risming upon rock, it is impractivable, and in others, though out slow, there impracting powerly of the soil, compared with the expense of draining it, we der the adoption of the spitem highly injudicious; but in our claude, hill-vive as far satirity unproductive under tillage, from all moisture, and is our deeper soiled bogs and meadows as yet the plough, there is not a doubt that this mode of draining we highly beneficial.—Damfries Heraid.

SPAIN.

From the pen of one of our Correspondents we have been supplied with the following "Remarks on the present state of Spain," and feel much pleasure in assigning to them a portion of our columns, convinced that in the present state of the Peninsula every thing connected with its history must be highly interesting to many of our readers, and we shall furnish in continuation, a series of valuable information on this important portion of the European States, respecting the real situation of which so little appears generally known.

REMARKS ON THE PRESENT STATE OF SPAIN.

A very large portion of the richest lands in Spain are at the present moment lying entirely waste, without even an owner, and the State is thus deprived of an immense produce which individual industry might otherwise extract from it. This evil has arisen from the agrarian laws enacted shortly after the expulsion of the Moors, which declared that all waste lands should be exclusively appropriated for feeding the flocks of the "Mesta," or incorporated proprietors of migratory sheep. The members composing this body have for the last two centuries been sufficiently powerful to maintain and extend their peculiar privileges. They have at present the right of preventing lands, once appropriated to pasture, from ever being cultivated, as well as that of preserving and extending the roads for the passage of their flocks, which are never allowed to be interrupted; they have also the privilege of rating the price of the grass consumed by their flocks, and of successively participating in all public pastures; in short, the farmer is interdicted from enclosing his lands, or preventing the free passage of their flocks through his fields and fallows, which are in consequence regularly traversed every spring and autumn by the migrating sheep in their journies to and from the northern and southern provinces. Another large portion of the land in Spain is absorbed in municipal property, consisting of estates granted for the support of various undertakings, such as mak

eattle; indeed, most of the fine horses in Andalusis are bred in private pastures. If these waste lands, which compose on the aggregate a very rich and extensive territory in ¡Spain, were disposed of by the state in limited lots, or let out upon leases, they would soon become populous, and put into a productive state of culture, affording better pasture for the numerous flocks and herds than they do in their present waste state. Commissioners ought to be appointed to draw up a report of the actual quantity and condition of all the waste lands in each province, and after arranging a proper division of the whole into separate districts, the government might proceed to the disposal of the same. It would, however, be necessary to pass a law for preventing such lands being left in perpetual entail, as well as for prohibiting, in future, the granting of lands and estates to churches, monasteries, or other corporate bodies. All municipal lands ought also to be sold outright, or let on long leases, the funds so produced being placed out to interest under trust, and employed upon works of acknowledged utility, for the benefit of the various communities for which these lands were originally granted. No evil would result from lands ought aiso to be soil outright, or let on long leases, the tones so produced being placed out to interest under trust, and employed upon works of acknowledged utility, for the benefit of the various communities for which these lands were originally granted. No evil would result from the sale or alienation of such lands, but, on the contrary, besides making a better provision for the purposes originally intended, they would afford the mean of support to numerous individuals. In districts where population is scanty, and in order to encourage settlements, lands might be let out to industrious settlers, in small lots, sufficient to maintain their families from its produce, charging only a moderate interest on the expenses incurred in building and stocking the farms, and allowing the parties the right of purchasing the same at a fair valuation, to be estimated according to the qualities of the soil, and the advantages of the district. In the province of Andalusia there is an immense portion of rich lands lying waste, and which would readily find purchasers, provided payment were allowed to be made by instalments, as owing to the want of capital it might be difficult to sell for ready money only. If the privileges of the "Mesta" were abolished, and permission granted for enclosing estates, it would afford encouragement for a number of small proprietors to commence farming, whereby a greater number of people might be employed in agriculture, and a greater produce derived from the soil, thus tending to diffuse wealth and comfort throughout the country. The enclosure of lands would also be the means of dispersing population over the country, by the establishment of small farms, and landed proprietors might then be induced to reside on their own estates. It has generally been found that the farms conducted upon the extensive scale as practised in Andalusia, independently of the large capitals they require, are in general badly, or not sufficiently cultivated, both from the scarcity of labourers, as well as from the small fa-mer and retail dealers are the fiscal laws regulating the sale of meat, eg. s, egetables, fruit, &c. which prohibit the country people from selling their commodities without the towns, obliging them to bring their acticles for sale at certain hours, giving corporations, innkeepers, and others the privilege of being first served; regulations intended to prevent monopolies, but which in fact only tend to diminish supplies, and increase the prices of provisions. The taxes, also, with which oil and wine are burthened, greatly discourage their growth. These fiscal laws impede the prosperity of agriculture from the restraints they impose on the freedom of traffic by vexatious formalities, legal suits, and the detention of property to which the persons are liable in cases of neglect. The restrictions on the corn trade ought also to be done away with, and a free trade allowed with the interior. Merchants might then be induced to venture their capital in bringing wheat from the provinces where there is a superabundance to those in which a sufficiency is not grown, whereas by the restrictions now imposed on the sale of grain, this trade is almost entirely confined to the carriers, who, possessing only limited means of conveyance, with little capital, have neither the facilities nor the power of supplying the demands for distant parts. A free internal trade for all the productions of the soil appears indispensably necessary for promoting agricultural presperity. prices of provisions. The taxes, also, with which

productions of the soil appears managenessing necessary for promoting agricultural prespective.

The taxes at present imposed upon agriculture consist of, as follows:—
Provincial or pasturage rents, varying from 2 to 74 per cent.
Civil fruits (a tax on the rental of lands) 5 to 6 per cent.
Alcavala, or gate duty, on the sale of poultry, cattle, meat, fruit, regetables, &c. equal to 4 per cent.; tithes to the clergy.

Duty of millones, on oil and wine, about 15 per cent.
The Alcavala tax is redeemed in the provinces of Castile, Arragon, Bis-

y, and Navarre

cial rents, which are allowed them back under the pica of repairs.

The laws of majorats and mortmain, which favour the entailing of lands in perpetual succession upon certain families, corporations, churches, monasteries, &c. greating indefinite permission for increasing such entails, at the same time prohibiting their alienation, exclude the greater part of the companying forms. monasterics, &c. grating indefinite permission to increasing one make, at the same time prohibiting their alienation, exclude the greater part of the community from the slightest chance of ever becoming possessed of landed property, which, from the small quantity for sale, is always exerbitantly dear, and, of course, at the disposal only of the most wealthy, who already hold more land than they can manage to cultivate. If the laws restricting the alienation of entailed property were, therefore, repealed, and those estates, allowed to be let out on perpetual, or long leases, the land would then stand a chance of becoming cultivated, instead of being left in its waste and unproductive state. Under the present laws and ordinances of woods and forests, all large timber fit for naval purposes is marked, and returns must be sent in regularly as to the quantity, and the state of its growth; permission is also required for felling it, although it must be cut down when wanted, and sold to the government at prescribed prices, so that little or no encouragement is afforded for individuals to attend to the growth of timber; and the consequences are, that both wood for the purposes of building, as well as for fuel, is daily becoming more scarce and dear. If proprietors, however, were allowed to enclose their forest lands, and had the right of disposing of their timber rabes and how they pleased, plantation would be more attended to, and the coats of the public better and cheaper supplied, planting of trees would be another benefit resulting from enclosures, the young plantations being almost invariably destroyed by the cattle for want of protection. An increase in the number of farms would finally facilitate the operations of irrigation, so necessary and useful in most parts of Spain, as it would tend to divide the expenses and labour, which now fall too heavily on most farmers; constant attention being required in clearing and keeping the trenches in order, opening and shutting the sluices, distributing, directing, and confining the waters, all which occupy much time and expense. In order, therefore, to restore agriculture in Spain to a state of prosperity, it appears requisite—

1. That the privileges of the "Mesta" be abolished, and that every individual be guaranteed by law in the exclusive possession of his property.

2. That proprietors be allowed to inclose their estates, and be protected against all aggressions.

ainst all aggressions.
3. That measures be adopted for disposing of the waste lands, and of That illumines of cultivation.

4. That all municipal laws regulating or restricting the sale of agricul-

tural produce, or the manner of cultivating the soil be abolished; pro-prietors being left in the free management of their own estates.

5. That all fiscal duties and imposts on the common necessaries of life

That the trade in eorn with all parts of the interior of Spain be de-

That the trustees of lands and estates belonging to the church, n nasteries, and corporate bodies, be empowered either to sell the same, or et them out for cultivation.

That it shall not be lawful in future to bequeath any lands or estate

o churches, monasteries, or other corporate bodies.

9. That the laws allowing of perpetual entail be established.

10. That the proprietors of all entailed estates be allowed to let out the

same on long leases.

11. That the laws respecting woods and forests be repealed, and the proprietors allowed the free disposal of their timber.

ASCENT OF MONT BLANC.

Mont Blane, as is generally known, is the highest peak of the Alps, and the loftiest ground in Europe, being 15,666 fect above the level of the sca. It is situated in the duchy of Savoy, now a part of the kingdom of Sardinia, in a range of mountains between Geneva and Turin, and rises immediately above the narrow valley of Chamounia, from which place alone, is the ascent to its summit ever made. Though Chimborazo is between 6,000 and 7,000 feet higher than Most Blane, it only rices 11,600 feet is the ascent to its summit ever made. Though Chimborazo is bet 6,000 and 7,000 feet higher than Mont Blane, it only rises 11,600 above the neighbouring valley of Chito: in this respect Mont Blane above the neighbouring valley of Quito: in this respect Mont Blane may be considered as a more remarkable mountain, as it rises 12,300 feet above the valley of Chamounix, the whole of which vast height can be scanned at once from the opposite eminences. For 7,000 feet below the top Mont Blane is perpetually covered with ice and snow. The distance, from the bottom to the top, by the shortest route which can be pursued, is considered by the guides as 18 lengues, or 54 miles.

Speaking with precision, Mont Blane is only the most eminent of a range of peaks springing from a vast extent of eminent ground on the south side of the valley of Chamounix. When the traveller enters the valley on the opposite side at an eminence called the Col de Balme, this range, coming at once into view, oppresses his imagination with a vastness unexpected even in that land of Alpine grandeur. While the valle below stilles with the most thusuriant vegetation, the sides of the hills are clothed

range, coming at once into view, oppresses his imagination with a vastness unexpected even in that land of Alpine grandeur. While the vale below smiles with the most lusuriant vegetation, the sides of the hills are clothed for a considerable way up, with dark and dense forests, and higher still, with the acsumulated hosriness of centuries.

To attain the summit of a mountain so lofty as Mont Blanc, was long an object of ambition, both to the native peasantry and to men of science, before any one was so fortunate as to effect it. It was first tried in 1762, again in 1775, and on four other occasions down to 1786; without success. At length, in the year last mentioned (August 8), this difficult enterprise was accomplished by Dr. Paccard, a native of Chamounix, in company with a guide named Balma. The mountain was ascended in the succeeding year by M. de Saussure, who gave to the learned world a very minute account of all the phenomena which he observed in the course of the expedition. Another attempt in the same year, one in 1791, a third in 1802, were the only successful attempts down to 1812, when a Hamburg gentleman named Rodatz gained the summit. From that time till 1827, seven successful attempts were made, besides one of the contrary description in 1820, which was out short by the threat of an avalanche, and the loss of three of the guides. In August, 1827, the ascent was performed by Mr. John Auldjo, of Trinity College, Cambridge, who published an account of it, illustrated by maps and drawings. In 1830, Captain Wilbraham made a successful ascent, and in 1834 another was performed by Dr. Martin Barry, who likewise gave an account of his adventures and observations to the world. This last ascent was performed on the 17th of September, a week latter in the year than any preceding ascent, and considered on that account as more than any preceding ascent, and considered on that account as more than any preceding ascent, and considered on that account as arms and ascent and considered on that account as arms tha the world. This hast ascent was performed on the 17th of September, a week later in the year than any preceding ascent, and considered on that account as more than usually dangerous. A few weeks still later, a French gentleman, having been informed that no countryman of his had ever made the ascent, while it had been made by eleven Englishmen, besides several natives of other countries, determined instantly to wipe away this imaginary reproach upon the fair fame of his country, and the consequence was—success, at the expense of his feet, which were destroyed by the cold. We are not aware that any attempt has been made, in the season just hast. was—success, at the expense of his feet, which were destroyed by the We are not aware that any attempt has been made, in the season just past, to perform this dangerous enterprise.—Chambers's Edinb. Journal.

DR. MEYER has forwarded a specimen of fossil wax to the French Academy of Sciences, with all the details concerning it which he had been able to procuse. It was found in Moldavia, at the foot of the Carpathian Mountains, covered with a stratum of elay slate, mixed with bitumen. M. Udreizky, a German, bad bored a mine there, and in it found pieces weighing from 80 to 1000bs. The texture varies considerably; sometimes its ing from 80 to 1000bs. The texture varies considerably; sometimes its fracture is fibrous, at others leafy; occasionally it is rippled: it is very pure and transparent at the edges, melts at a temperature of 40 deg., and yields a bituminous odour, by no means disagreeable. When washed in pure and transparent at the edges, melts at a temperature of 40 deg., and yields a bituminous odour, by no means disagreeable. When washed in several waters, this substance assumes a deep yellow tint, and in this state is employed in the manufacture of candles. Not far from the place where it was found, are several hayers of brown amber, which leads M. Meyer to believe that it may be yellow amber disturbed while joining. Cold alcohol has no action upon it; when boiling, it dissolves a small quantity, which in cooling precipitates itself is white flakes. The residuum acquires a deeper colour and more tenacity. Ether, at an ordinary temperature, dissolves that part which gives the yellow colour, leaving an almost colour-less residuum. Alcohol and ether mixed, precipitate the dissolved portion, and this precipitate, exposed to the fire, melts at a low temperature, and stains paper in the manner of oil. It is perfectly dissolved in oil of turpentine, and the solution congulates in cooling. The alkalis do not turn it into soap. Sulphuric acid carbonizes it, even at a temperature which causes it to melt. It does not cuit a fiame when exposed to a candle. M. Paravey has been seeking among Chinese authors for an account of this fossil wax. He states, that in the book of Pen-Tsao, the hou-pe or Mon-pe is said to be formed as follows: the resin or grease of the wild pine or harch, left in the carth a thousand years, gives the fouling, a sort of excrescence from the roots of these pines or larches which have been cut down even with the soil, and the presence of which is discovered by a ludown even with the soil, and the presence of which is absentive substance, employed in medicine, and when combined with the still more precious roots of the quiesny, and left a thousand years, or a very long time in the earth, gives the house, and if, after becoming house, it is again left for , gives the how-pe, and if, after becoming how-pe, it is again left ususand years, it gives the black stone to, or to-pe (evidently jet), gniart says, in his 'Mineralogy,' "that with the Prussian amber, found the fruits of the Pinus abies; and the tree called in Chin from which the how-pe is said to come, is the Pinus abies." Brongniart says, in his often found the fruits

On Thursday, the 31st ult., a young man, named Richard Temby, of Camborne, was working at the valley district in Doleoath mine, on what is commonly called a "swing stage," that is a stage let down into a gunnies or workings, where no timber is long enough to reach from side to side. The stage consists of a platform let down by robust or chains from a necessary gunnies, where it can be accurate. reach from side to side. The stage consists of a platform let down by ropes or chains from a narrower gunnies, where it can be secured against one of the sides where the miners intend working. This unfortunate young man fell over a stage of this sort to a perpendicular depth of 13 fathoms, on a heap of immense rocks which they had been blasting down from the side, and was taken up all but dead, in fact, he died in the arms of his comrade while being removed for the purpose of being taken to the surface. A coroner's inquest was hald on the following day on his remains and a verdict of accidental death returned.

Melancholy and Fatal Acrident.—On the morning of Tuesday, as the colliers belonging to the Brace, or Lianelly Cliery, were descending the pit to go to their work, five of them incutiously went into the basket, in order to save themselves the troub of going down over the ladders; when, owing to a deficiency steam to manage the engine, after they had gone down a little way, the engine stopped and began to work the contrary way, which brought the basket in which they were in violent contact with the sheave above the pit. The rope in consequence gave way, an shocking to relate the whole of the men were precipitated to the bottom, a depth of nearly 180 yards! They were of course crushes to atoms, and could scarcely be recognized by their respective relations. Their shattered remains were collected as well as circumstances would admit, and wrapped up in canwass; but when the tions. Their shattered remains were concetted as well as circumstances would admit, and wrapped up in canvass; but when they came up they presented a truly heart-rending spectacle. A lad who was seated on the spreader over them miraculously escaped, by clinging to one of the conducting chains. It is most astonishing how he had the presence of mind to hold on, for he went down several fathoms, and stopped himself entirely by the strength of his arms, on a slipery chain, until he was rescued from his perilous situation. No blame can justly be attributed to any person but to the temerity of the men, for the engineer, before they descended, told them that there was not a sufficient quantity of steam to regulate the engine. Mr. Morgans, the manager, had also repeatedly cautioned them against going down in such a dangerous way; and even the banker, the same morning, remonstrated strongly with them; but all to no purpose. An inquest was held on their remains the next day, before W. Bonville, Esq. Coroner, and a verdict of accidental death returned.—Welshman.

Scientific Travels.—It will be recollected that MAC Benefit he had the presence of mind to hold on, for he went down several

Scientific Travels.—It will be recollected, that MM. Beequerel Scientific Travels.—It will be recollected, that MM. Becquered and Breschet were furnished by the French Academy of Sciences with the means of pursuing their experiments on animal heat, at great elevations above the sea. Taey were also recommended by the French government to the various representatives of their own country, in the stations which they visited. The travel terminated: M. Becquerel has announced to the Academy that he shall shortly by the feet it remains the station. These centlemen have made ob-Becquerel has announced to the Academy that he shall shortly lay before it some important results. These gentlemen have made observations on the intensity of terrestrial magnetic force, by means of a new apparatus at Vevey, Bex, Martigay, Liddes, Grand St. Bernard, Sion, the baths of Loueels, Briggs, the Simplon, Raverio, Milan, Pavia, and Venice. The temperature of the human body has been observed on high mountains, in valleys, plains, &c., at the usual atmospheric temperature, and in baths, where the thermometer fell to 45° centigrade. The temperature of the Lake of Geneva has been measured at a depth of more than 300 feet, which experiment been measured at a depth of more than 300 feet, which experiment has discovered a new and unexpected property in electrical currents. In the Valais, the travellers watched the symptoms of the goitres, In the Valais, the travellers watched the symptoms of the goitres, and at Venice observed the electricity of the torpedo. They have also collected many details relative to the decomposition of rocks, which they think will throw light upon geology.—Athenæum.

"Adien to a Sea Coal Fire."—The time, we are inclined to

think, is not far distant, when the heating of all large towns will reduced to the same degree of simplicity as now exists in the mode of lighting them, and of supplying them with water. In another half century, the only coal fires in London will probably be those of the gas works, of the steam engines, and of the manufactories. There is nothing to hinder all private houses from being heated, as well as is nothing to finder all private houses from being heated, as well as lighted, by gas; and from having all the cooking of every description, boiling water for washing, heating baths, smoothing irons, &c. performed by that fluid.—Architectural Magazine. [One correspondent of the work, says in ten years an end will be put to the plan of heating rooms by water. Another predicts that a hot water apparatus, such is its comfort and so moderate its expense, will soon be considered indisconsible in developer.

be considered indispensable in dwellings.]

The immense wealth of Mr. Bowes.—The immense wealth of Mr. Bowes, father of the late Countess of Strathmore, arose in great part from his mines in Durham. He paid in tithe to the rector of one parish an equitable modus of £700 per annum. The living, exclusive of this, was worth only £100. The rector became covetous of

a larger modus, and demanded £1,000 per annum. Mr. Bowes de-sired a few days to consider the matter. In the interim he sent for his head miner, and gave him orders to shut up the shaft then in use,

head miner, and gave him orders to shut up the shaft then in use, and to open one in the next parish, where was a very poor living. He then sent word to the covetious man that the shaft was shut up, and should never be opened while the living was held by him.

Chemical Problem.—M. Biot has proposed in one of the sittings of the French Academy of Sciences, the following question to chemists. When crystals of pure tartaric acid are dissolved in different proportions of water, at a temperature of from twenty-two to twenty-six degrees centigrade, are there, or are there not, in this actual state of aqueous solution, molecular properties, depending on the proportions which constitute it \(\greap \) and if there are such, can the physical law be pointed out which will define or express them, for each given proportion of the two bodies \(\greap \). If this question should attract the attention, and lead to the researches of chemists, M. Biot has no doubt that the results would produce some very remarkable has no doubt that the results would produce some very remarkable consequences. While waiting for the labours of others, he has lodged a sealed solution of this chemical problem in the hands of the French Academy of Sciences, obtained by himself, and which will be opened at the first sitting in December.

Malachite.—The Baron de Humboldt has informed the French Academy of Sciences, that a large way of sciences that here were of relability to the transition.

Adademy of Sciences, that a large mass of malachite has been discovered in the copper mines of the MM. Demidorf, situated in the Uralian mountains. Two thousand five hundred and sixty pounds have been already taken from this deposit, and since its di another has been found of enormous size, without a crack. This circumstance is rendered more important, by the entire failure of the vein of Malachite in the mines of Goumetchefskoi.

Fossil Remains.—In a letter written to M. Arago, and communicated by him to the French Academy of Sciences, a M. Bernard announces.

nard announces that some bones have been found in the cave of Gigny, between Bourg and Louis is Saunier, which were supposed to be fossil human remains. These remains have been sent to Paris, and the head has been examined by MM. Cordier, Flourens, and Dumeril, but these naturalists have not been able to find any-thing which entitles it to be called a fossil. By the side of these found an mains exist in the neighbourhood. It is probable that the ca-

vern had been used as a catacomb. Adventures of a Diamond—A letter from Hamburg states, the rand Veneur of the Emperor of Russia has bought the famous uncy diamond, for the sum of 500,000 roubles, and that the mer-Sancy diamond, for the sum of 500,000 roubles, and that the merchant, Jean Friendlieu, has been the Duchess of ——'s agent in this affair. The diamond originally came from India, and has remained in Europe for the last four centuries. The Duke of Burgundy, Charles the Bold, was its first owner, and he wore it on his helmet at the battle of Nancy, in which he lost his life. A Swiss soldier found it, and sold it to a priest for a florin. In 1489 it came into the possession of the King of Portugal, who, being in want of money, sold it to a French gentleman for 100,000 francs, Nicholas Harley Sancy, who gave it his name, had it afterwards by succession. At the time of his embassy at Soleure, Henry the Third enjoined him to send him the diamond in order to pledge it; the servant that had been entrusted with it having been stacked by robbers, swallowed it, and was murdered. Sancy ordered the corpse to be opened, and the diamond was found in the stomach. James the Second of England possessed this diamond its 1688, when he came to France; it came afterwards into the possession of Louis XIV., and Louis XV. were it in his crown at his coronation. The diamond has been of a pear; it is of the most beautiful water, and weight 534 cases. Sancy diamond, for the sum of 500,000 roubles, a

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New Discovery in Chemistry.—We have to notice the discovery of another of those active veretable principles which every fresh analysis of plants brings to light. This substance, which has been termed diatase by its discoverers, MM. Payen and Persoa, occurs in barley which has just begun to vegetate. It has little or no action upon any organic matter, excepting starch, upon which it is so considerable as to render 2,000 times its weight of the latter obable in four times as much warm water. If the proportion of the diatase he increased to about 1-200th of the weight of the starch, and the whole heated to a temperature less than that of boiling, it will be found that the starch has been wholly converted into a mixture of sugar, with a grant hospitals of Paris, as a substitute for gen arabic. The fact has been long known, though not previously accounted for, that beer, equally strong, may be brewed from a mixture of malt and barley, as from malt alone; and distillers have availed themselves of this circumstance. The starch of the barley is, by the action of the diatase of the malt, converted into gun and sugar, and the latter, when fermented, furnishes the alcohol or spirit. In organic analysis, diatase, from the extraordinary power which it possesses of rendering soluble so vast a proportion of starch, will render valuable service, as it will enable the chemist to separate the smallest portions from foreign substances.

The Analyst

PROM THE LONDON GAZETTE.

Tuesday, Jan. 5.

PARTNERSHIPS DISSOLVED.

PARTNERSHIPS DISSOLVED.

J. and R. Oliphant, Cockspur-street, army cap makers.—J. Corbett and R. C. Inott, Nottingham, hair dressers.—Matthie and Steel, Liverpool, merchants.—Clementson and Fortune, Liverpool, attornics.—W. Tooke and C. Parker, Bedisoriew, attornies at law.—T. Blackburne and G. Dickson, Liverpool, commission merchants.—T. Chatfield and G. Grankham, Jun., Lewes, Suisses, timber merchants. J. and C. Ox, Nottingham, lace manufactures.—Stowell, Wade, and Co., Bradford, Yorkshire, worsted spinners.—Harris and Penn, Stoarbridge, Worcestershire, mercers.—I. Knowles.—R. Winstanley and Sons, Paternoster-row, anctioners, as far as regards L. Knowles.—R. Winstanley and Sons, Paternoster-row, anctioners, as far as regards. R. Winstanley and J. Raditos, Manchester, agents.—J. and G. Mace, Wolverhampton, Staffordshire, locksmiths.—J. M. M'Donald and A. M'Indol, Everett-street, Russell square, tallers.—T. R. Batson and J. S. Wooler, Newgartic-upon Tyne, soap-boilers.—W. and J. Pettifor, Leicester and Nottingham, carriers.—M. Shaw and Son, Worksop, Nottinghamshire, whitesmiths.—G. Burbidge and T. Bishop, Watting-street, fancy atationers.—Shan, Driver, and Co., Leeds, merchants.—J. Scott and W. Parke, Liverpool, corn merchants.—T. Walton and J. Stocks, Preston, Lancashire, corn dealers.—W. Richardson and R. Sargeant, Barrow, Lincolnshire, blacksmiths.—E. Bird and W. Ackland, Plymouth, rag merchants.—Richards and Schmedts, Liverpool, or herwers.—J. Harrison, T. S., and A. Stock, and J. Lynch, Ashton, Lancashire, coal proprietors; as far as regards R. H. Johnson.—J. Price and Co., Liverpool, rope makers; as far as regards A. H. Johnson.—J. Price and Co., Liverpool, rope makers; as far as regards A. H. Johnson.—J. Price and Co., Liverpool, ope makers; as far as regards A. H. Johnson.—J. Price and Co., Liverpool, rope makers; as far as regards A. Binth.—J. Burrows and H. Roberts, Manchester, common brewers.—Johnson and Palmer, Fenchurch street, wholesale ironmongers.—J. Tildasley, sen., and T. Sturiand, Birmingham,

INSOLVENT.

Jan. 5.—George Thomas Clough, George-street, Great Surrey-street, Blackfriars, baker. BANKRUPTS.

BANKRUPTS.

Henry Nicholls, Quadrant. Regent street, glover, to surrender Jan. 12, at halfpast 11 o'clock, Peb. 16, at 21, at the Bankrupt's Court, Basinghall-street. Solicitor, Mr. Hodgson, Cecil. street, Strand; official.assignee, Mr. Abbott.
Otto Jacob George Hawkins, Upper Belgraves-street, Hasover-square, boarding
housekeeper, Jan. 13, at 1, Feb. 16, at 11, at the Bankrupt's Court. Solicitor, Mr.
Hurley, Gray's-linn-square; official assignee, Mr. Edwards, Panoras-lane.
'Thomas Joseph Titterfon, Gray's-inn-lane, coach maker, Jan. 15, at 1, Feb. 16,
at 11, at the Bankrupt's Court. Solicitors, Messars. Fisher and De Jersey, Aldersgate-street; official assignee, Mr. Goldsmid, Ironmonger-lane.
'William Oxendale, Scotton, Yorkshire, cattle jobber, Jan. 27, Feb. 16, at 11, at
the house of Mr. Fryer, Catterick-bridge, Yorkshire. Solicitors, Messrs. Tilson,
Iguance, and Tilson, Coleman-street.
'Philip Parry, Llangreyprey, Breconshire, victualler, Jan. 29, Feb. 16, at 11, at
the Kolle, Brecon. Solicitor, Mr. Price, Abergavenny.
George Dike Fisher, Waterhouse cottage, Wilbahre, makter, Jan. 15, Feb. 16, at 1,
at the White Lion, Bath. Solicitors, Messrs. Holme, Frampton, and Loftus,
New Inn.
John Ashwin Smith, John and Abraham Lees, Eliston, Staffordshire, groeers,
Jan. 16, Feb. 16, at 11, at the Lion hotel, Wolverhampton. Solicitors, Messrs.
Clarke and Medcalf, Lincoln's-Inn-fields.
George King, Potton, Bedford. Solicitor, M. Lloyd, Staple-inu.
DIVIDENDS.

Dividends. Solider, ar. 18390, seager int.

Jan. 29, E. Perkins, Northampton, victualier. — Jan. 26, J. and W. Jackson,
Strand, stationers.—Jan. 28, M. Arnold, Tavistock street, Covent-garden, bookseiler.—Jan. 29, J. Porrest, Bradford, Yorkshire, innkeeper.—Jan. 27, J. Beacon,
Reeth, Yorkshire, corn factor.—Feb. 3, J. M. Bird, Liverpool, chemist.—Jan. 28,
J. Austin, Manchester, brick maker.—Feb. 17, J. Cooper, Liverpool, joiner.—Feb. 9,
R. S. Clare, Harrington, near Liverpool, tar distiller.—Jan. 27, C. Fietcher and A.
Weodhead, Salford, Lancashire, common brewers.

Woodhead, Salford, Lancashire, common brewers.

CERTIFICATES to be granted, unleas cause be shown to the contrary, on or before Jan. 26.

R. C. Heigham, Lakenham, Norwich, beer brewer. — A. Leigh, Manchester, builder. — G. Baker, Birmingham, auctioneer. — A. Moore, Well's-row, Islington, builder. — W. Marshall, Colchester-street, Whitechapel, steam-engine boiler maker. S. Stocker, Baptist-mills, Gloucester, vietualier.—S. Lovymer, Bitistol, brewer.—G. L. Hutchinson, Esser. - street, St. Pancras, apothecary. — M. A. Phillips, Dorsef-square, school mistress. — W. Hannay, Liverpool, merchant. — G. Philips, Bienheim-street, Bond-street, wine morchant.

Friday, January 8, 1836.

Friday, January 8, 1836.

W. H. Robinson and C. Robinson, London, merchants—J. Bubb and B. Bubb, Cheltenham, attorneys—J. Warcup, J. B. Warcup, and W. W. Warcup, Deptford, Kent, so far as regards J. Warcup.—J. Carpenter and J. Blackey, Locals, Yorkshire, pawntrolers.—C. Turner and C. Turner, Jun., Liverpool, ship-hokers.—W. Churchill and E. Franklin, Oakley-street, Lambeth, harness-makers.—J. J. Bimons, and B. B. Simons, Garkenwell-green, coffin-makers.—R. J. Nevillsand N. Broom.—G. Jubber and H. Jubber, Oxford, confectioners.—T. Wade and J. Vale, Peter's-place, Hernang's-row, goldsmikhs.—S. Thurston and G. Shelton, Birmingham, timber-merchants.—J. Neviler and E. Dangerfield, Cheltenham, Gloucestershire, coach-merchants.—J. Nevier and E. Dangerfield, Cheltenham, Gloucestershire, coach-merchants.—J. Wikie and P. Gialdhill, Newcastle-upon-Tyne, drapers.—J. Gifford, Claremout square, Pestonville, and J. Fowler, High street, Whitechapel, butter-factors.—G. Bill and C. Johnson, Bowd-yard, S. Gilles's, porter-browers.—W. Barton and H. Jeffery, Broad-street, Rateliff, shipping-butchers.—H. J. Merch and F. T. Schmidt, Hamburgh, Germann, and G. F. Thode, Manchester, nerchants.—W. Rathbone, B. Rathbone, J. Powell, and E. Dearman, Liverpool, merchants.—H. Harraworth and J. Pettifer, Bow, Middlesses, bleachers.—W. Gower and W. Day, Maidstone. Kent, corn-factors.—J. P. Wright and R. Wilson, Sheffield, Verkshire, surgeons.—P. O. Adams and B. E. Blennett, Merket Harborough, Leicestershire, attorneys.—S. Addington and W. Cobbett, St. Martin's-lane, woollen drappars.—K. Pringie and J. Cutibert, Liverpool, seedsmen.—S. Oughton, Ser. J. Ashworth, and S. H. Onghton, Newton-hesth and Manchester, silk-nanofacturers.—J. Robinson and B. Robinson, Shipton, Verkshire, tea-dealers.—W. Seed and J. Elger, Parkinson and M. Martin's-lane, woollen drappars.—K. Pringie and J. Cutibert, Liverpool, seedsmen.—S. Oughton, Ser. J. Parkinson, Oxford-street, oil-merchants.—E. Beller and W. Sage, Obester, common-brewers.

BANKRUPTCIES AND STATE AND

m to the contrary, on or

R. M. Moore, Bishopsquie-street, oil and colournan-J. R. Henderson, Davies-street Berkeier-square, wine-merchant-D. W. Stephens, Ennworth, Harts, wine-merchant-J. Greenfold, West Handrift, Forest Gate, Essex, frames-H. Prior, Ludgate-bill, stationer-G. Newman, Broint-Spa, Norwood, wine-merchant-T. S. Fluid, Trainty-square, wine and aprit broker-A. Molany, Brutan-place, wine-merchant-R. Clements, Upper Berkeiy-street West, builder-J. Jarmain, Air-street, Picadity, bill-broker-W. Last, Munster-street, Regent's Park, Coal and corn merchant.

COMMERCIAL INTELLIGENCE.

store, Peccality, Mil-seuser-W. Last, Mandet-Arret, Regent's Park, Coal and corts merchands.

The Colonial Markets throughout the sweek have maintained a very animated appearance, a market improvement in prices has taken place since the last calculation of the control of the market for some time to come is decidedly upwards. The demand for almost every description of West Indian produce was good, and the sales were essentially upon a larger scale than for many veeks past.

On Tuesday, being the first market sky since the sath ult; the rise in the redden market prepared the trade to expect a further advance in raw fangar; the holders acked prices about 1s higher than before the holdings, which have been reluctually ket; on investigating the naises with the samples before the holdings, we find the prices of good and fine singares is. to 1s.6d. higher: and revow Sagars fully is, 6d. higher: the estimated sales this week are offee hids. including the public and coffice, very low brown Burners and 6d fiss, whigher and brown Sagars and 1s. 6d. to 6m., very low brown Burners and 6d fiss, whigher and brown Sagars and 1s. 6d. to 6m., very low brown Burners and 6d fiss, whigher and brown Sagars and 1s. 6d. to 6m., very low brown Burners and 6d fiss, whigher and brown Sagars and 1s. 6d. to 6m., very low brown Burners and 6d fiss, which have been relucted at an advance; the sales of the work are eigh bags, the fine yellow qualities sold to 6m. 6d. Advanced in the same of the work are eigh bags, the fine yellow qualities sold to 6m. 6d. Advanced in the same of the work are eigh bags, the fine yellow qualities sold first, which are the same of the work are eigh bags, the fine yellow qualities sold first, which are the sales of the work are eigh bags, the fine yellow qualities sold to 6m. 6d. to 6m. and 6m

CORN EXCHANGE, LONDON, JAN. 8.

The arrival of Whilat and Floura this week has been very moderate, and the Mealing trade is firm, on quite as good terms as on Monday. In Barray, Barray, and Fras, we do not note any alteration in value. Oars, of which the supply is limited, fully support Monday's prices. In other articles no alteration.

Wheat, p.Qr. 33s to 47s Mnitp.Qr.50s to 6es Oats, p. Qr. 16s to 26
Rye 30s to 34s Peas 31s to 39s Bran 9s to 10
Barley 34s to 32s Beans 30s to 46s Pollard 14s to 20s
Linseed
Carraway Seed. new 53s to 58s per Cwt. Ditto brown 6s to 6s do. Tares, new winter . 3s 6d to 5s 6d per Bushel. FLOUR, per Sack.
Town made

Town made	FLo	DUR, D 368	per Sack. Essex & Suffolk, on board	

		AVERAG	E PRICE OF	GRAIN,	per Quarter.	
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PRICE OF RAW PAT, per stone of 14th.

	PRI	CE	0	F TALLOW, S	DAI	. 4	201	per 1121b.			
	- 7		4.	a see see see a	***		4.				К
Town Tallow	-	80		Melting Stuff		33		Mottled Scap	**	-	6
Yellow Russia	- 00	-		Ditto Rough		21		Curd ditto	**	-	
White	4.0	-		-				Graves		14	ш
Soap ditto	**	-		Yellow Soap		No.		Good Dregs		-	83

PRICE OF CANDLES.

The price of good Store Candles, in the retail shops, is as follows:—Candles, per dozen, 7s ed.; inferior, 6s ed.—Monids, as 6d. Sixpence per dozen discount for cash.

	PRICES	OF	HAY	AND	STRA	W, DEC. 31	
				1 CL	OVER.	HAY.	STRAW.
Smithfield Whitechapel Regent's Park				759	to gas	fin to see	988 to 39
Whitechapel	******			90a	to 100s	70m to 80m	248 to 30
Regent's Park				. 25a	to gas	die to see	ofe to an
Portman Mark	et					fee to: 976	
Portman Mark New Hungers	rd Market.		******	788	to gan	fee to ses	ple to se

PRICES OF TIMBER PER LOAD.

Quebec Oak, al 10s od to 51 es od ; Fine Red, 41 12s 5d to 41 13s ; Riga Fir, 31 10s 6d.

Dantuic and Memel, al 2s 5d to 51 7s 5d.

WOOL, per lb.

Blanket, 11d to 18d—Combing 14d to 22d—Finned, 14d to 18d—Finnez Wools.—6
and S. Down Hoggets, 18 ad to 18 led—Half-bred, 18 ad to 18 led—Kent, 18 7d to
18 d1—Fin Long Wool of Lincoln, Lefcenter, Warwick, Prom the greener, 18 ad to
18 d1—Fonnion Wools.—Germany, Electural, 48 dd to 38 pd.—Lower Qualities,
28 ad to 28 dd.—australian, best, 28 ad to 38 ed—Inerior 08 led to 18 dd—Van
Diemen's Land, clean, 28 ed to 28 dd.—Trade brisker.

SHEEP-SKINS.

Polled, 54 5d to 88 6d each—Kents, and half breds, 48 5d to 4—Polled Lambs, 48 6d to 46 6d on 0d—Down Lambs, 38 5d to 4866.

Parchasers.	Mine.	Tons	Total Tona.	Per Too.	Amount.	Total Amount
	East Wh. Crofty	60	-61	8 . s. d.	d. s. d.	- apr 3
Sons.	Consol. Mines North Roskear	101		10 10 0	858 10 0 653 4 0	112
**	South Rockear	47	0	3 6 0	99 8 0	-10
**	16	87	1	9 1 6	789 10 6	5
**	Dolcoath East Wh. Crofty	80		2 10 0	103 6 0	
**	United Hills	88	-	3 11 6	303 17 6	-
: 4	So. Wh. Bassett	37	-649	6 10 0	196 10 0	-3942 10
4. Freeman	North Roskear !.	494	7	6 to 0	821 15 0 603 7 0	
and Co.	**	97		7 8 6	693 7 0 695 19 6	1000
	**	91	1	6 15 0	310 10 0	100
	Powey Consols	79	4604	7 9 .	560 18 0	-3106 La:
s. P. Grenfell	North Ronkear	498		6 10 0	391 18 0	
	South Boskess	47		5 13 6	966 14 6	
::	**	76		5 11 0	388 8 6	
**	Dolcoath	94		4 17 6 5 16 0	450 5 0	
**	United Hills	26		8 18 6	147 11 0	17 1000
**	So. Wh. Bassett	61		0 16 6	367 8 0	
**	**	88	-619	7 18 0	449 10 0	
6. Crown Cop.	Consol. Mines	66		5 12 0 5 7 0	369 19 6	
per Co.	Wh. Anna Francis	10	-140	3 0 0	31 18 0	- 745 7
7. Newill,	South Roskear	-	100	4 17 0	496 16 0	
Sims, Druce,	United Hills	26 26		4 7 0	147-11 0	
**	Wheal Sparrow	de		4 18 0	303 16 0	-1054 18
a. Williams,	Conact. Mines	day	0	11 4 6	341 16 6 000 3 6	
Faster & Co.		77			601 17 6	
**	Doleoath	37 66		7 11 0	649 6 0	
		67		11 0 6	264 # 6	
**	East Wh. Crofty	67		8 16 0	191 18 0	
	United Hills	10		7 1 0	697 0 0	
**	Lanescot	36		4 7 0	166 19 0	
**	Poigooth	19	-7804		100 4 6	6569 19
g. Benson,	Consol. Mines	004	-/	8 19 0	341 16 6 909 10 0	
Lagan, & Ca.	**	98		7 15 0	790 15 0	
**	**	90		7 6 0	190 0 0 173 16 0	
**		60	444	6 10 6	384 18 0	
**	North Roskear	88		19 0 0	98	-9119 9

COAL MARKET LONDON.

		3	A.	vu	Al	RY, 1836.					
QUALITY.					-00	QUALITY.		PAR	-	IN.	-
Newcastle.	4/A				À.	Jan.	4		IA d	8	A
Admir's		20		19	6	Newmarch		2	T	20	ā
Dean's Primrose	18 6					Riddell's		- la	т	-	П
East Percy	19 1	19	3	19		Walker	94	9191	r	99	
Holywell	21 3	21		21		Waldridge				10	1
Holywell Reins		1.6		18		Sunderland.		-		1	
Orde's Redheugh	19.0	1.0		18	0	W. E. Braddyl's Hotton		193		99	
Pontop Windsor		19		19	3	Hetton				99	ı
Pitt's Bouth Moor	18 6	14				Lambton	98	A S		99	ā
Russell's High Main		1.00	9		и	Stewart's	95	6		-	
South Hartley					. 1	Ninchian.				20	
Tanfield		21	.3	91		W. E. South Durham		91	п	99	4
West Hartley		91		91		Tues	45	3 99	9	-	
Wylam	21 6	91		21		Weilington		29	l a		
W.E. Bewicke and Co			- 1		- 1	Blythe, Scotch, Weich,					
Brown's			-1		- 8	and Yackshire.					
Carr and Co	21 .		з		П	Cowpen	90	0	-	12	
Gosforth		21		#1	6	Hartley	#1	6 91			
Hotspur	21 0	28.		21		Llangennegh Conl	14	0 94	6		
Heaton		21		#1	6	Mikstone Biram	19				
	21 6	91		94		Washro' Park	-	117	6		
Killing worth	21 9		- 6			Sturge's Gawber Hall		A		17	4
Lanchester			3	26		Thorp's Gawber Hall		6		1	-

Arrived since tast Friday, 100 Vessels.

	PRICES OF	P METALS, &c.
٠.	Copper, British, Cakes, fee 95 9 9	Tin in Bars 6 3 9
16	Mheets Ib. 6 0 11	Grain Biocks & & 0
16	Bottoms 0 1 0	Broken 10 0
16	8. American	Banca
18	Iron, British, Pigs 6	Mysits
2	Bars	Pintes, per box of 195 sheets a a a
	Bolts and Rods 10 0 0	4 C 102 by 10 in 1 10 4
4	Moops 13 16 6	IX morning comment . 1 4 6
7.	Plate 11 10 to 15 10 6	1 X X 161 9 10 0
	Curgo at Cardiff # 0 0	2838
a	Poreign 8d. C.C.N.D 18 10 0	IXXXX 100 1 1 4
7	P.S.L 14 10 0	H. C 134 by 92 106 1 10
7	Swedish 23 10 to 14 0 0	H. X 139 3 9 0
	Lend, British	111. d 199 by 94 00 1 14 0
	Pigs fue 30 0 6 to 21 0 0	118. Ke
×.	Sheet milled fon 21 0 0	Canc 2 16 by 11., 107 3 0 0
	Hars 19 18 8	Brn. Saic 16 by 11. 107 9 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0
ũ1	Mhot, Pat. 1 to 5 21 0 0	Dill. (anxx) 900 h 19 &
8	6 to 19 1 20 0 0	SHEET 100 # 18 A
	Red or Ministra 21 10 0	SOUTH 101 4 4 8
31	White 16 0 0	. C this by 184 90 1 14
91	Lithurge 93 0 0	Lucia. Jue shoets 198 9 0 0
41	Pig. Spanish for 19 18 8	Did 288 147 9 0 0
ā l	Steel, Milan 36 30 0 0	/ WEST
7	Swedish Ad	SEER 109 9 10 A
н	Tin in Blocks	Tangers, 14 by 16., 410s
п	Ingots 8 1 0	
ш	Wasters of No. I. C. No. I. X. and No. I	XX, in per hox less than perfect platen
4	all other sorts of Wasters & nor hos less	Butty and shipping charges 44 and her

PRICES OF STOCKS.	THE MINING JOURNAL.	PRICES OF SHARES CONTINUED.
	BRITISH MINES.	WATER-WORKS.
BANK STOCK, 8 per Cent. Satur. Mond. Tuesd. Weds. Thurs. Frid.	8,500 British Trin	4,800 Birmingham. 25 pt 1500 N. Riv. Lond. B. W. An. 120 Cotchester. 1000 Cranton Hill. 25 4433 East London 100 131 Glasgow 50 4,500 Grand Junction. 41 51 5 23 2,000 Kent 100 Vaxxhall, late S. Lon. 100 Vaxxhall, late S. Lon. 100 Vaxxhall, late S. Lon. 100 4 388 Liverpool Bootle. 220 110 ROADS. 1300 Voxx Middx. 450 120, 94. 1350 York Buildings 100 150 No. 100 Vaxxhall, late S. Lon. 100 Vaxxhall, l
Data	4,000 New S. Hooe 1 1 14 FOREIGN MINES. 4,000 Aften 104 82 9 10,000 Mocaubas & Cocaes 22 16 17 10,000 Aftelo Mexican 484. 2,000 Blanca 150 135 40 1,500 Real del Monte, reg. 634 10,000 Blanca 150 135 40 Ditto Subscription 150 Ditto Loan Notes 150 104 Ditto Loan Notes 150 105 Ditto Loan Notes 150 Ditto Subscription 150 Ditto Loan Notes 150 Ditto Subscription 150 Ditto Loan Notes 150 Ditto Subscription 150 Ditto Subscription 150 Ditto Loan Notes 150 Ditto Subscription 150 Ditto Subscription 150 Ditto Loan Notes 150 Ditto Subscription .	1000 New North Road Stock 100 Stoc
BANK OF ENGLAND—THANSFER BOOKS. S per Cent Consols Wednesday, Dec. 2, 1825. Thursday, Jan. 14, 1836. New 34 per Cent Wednesday, Dec. 2, Thursday, Jan. 14, 3 per Cent. 4226 Thursday, Dec. 3, Thursday, Jan. 14, New 5 per Cent Friday, Dec. 4, Friday, Jan. 8, Anns. for terms of years Monday, Dec. 7, Friday, Jan. 82, India Stock Thursday, Dec. 3, Thursday, Jan. 14, West India Compensation Loan. For £15,000,000. Contracted for on Monday, August 3, 1835, by Mr. N. M. Rothschild. £73, 3 per cent. consols; 223, 3 per cent. reduced; and 13s. 7d. long annualties, for every £100 sterling	12,000 Cobre Copper 15	British Annuity 50 10 New Corn Exchange. 10,000 Canada Company 2 345 10,000 Canada Company 2 345 10,000 Carron Iron Company 250 103 12,000 Rio Doce 3 10,000 Rio Doce 3 10,0
#23, 3 per cent, reduced; and 13s. 7d. long annuitles, for every £100 sterling subscribed. Interest on the reduced and long annuitles to commence from April, 1835; and on the Consols from July, 1835. Discount at the rate of 2 per cent. Deposit August 6, 1835, £10 per cent. Sth Payment, April 12, 1836, £0 per cent. Here are a subscribed by the subscr	25,000 Clarence 100 50 25,000 London & Birminghm 45 45 1,600 Cromford & Peak For 100 1,000 Cromford & Peak For 100 1,000 Cromford & Peak For 100 1,000 London & Gravesend. 1 1 1,000 London & Southamp. 15 12 25,000 Groat Market Rail 50 2,500 Forest of Dean 50 28 10,400 Grand Junction 40 25,000 Great Western 5 184 25,000 Freston and Wyre. 1 1,500 Stathope and Tyne. 100 240 250 Kenyonand LeighJune 100 250 Kenyonand LeighJune 100 250 Kenyonand LeighJune 100 250 Kenyonand LeighJune 100 240 2412 250 Kenyonand LeighJune 100 250 Kenyonand LeighJun	Liverpool Coal Gas
1000 100	CANALS. 1,760 Ashton & Oldham £97 18. 162	Kenyon & Leigh do 100 110 0 0 0 0 0 0 0
FRENCH FUNDS. **PRENCH FUNDS.** **PRENCH FUNDS.** **PARIS.** **Jan. 4. Jan. 5. Jan. 4. Jan. 5. Jan. 1. **PARIS.** **PARIS.** **Jan. 4. Jan. 5. Jan. 1. **Jos. 26. 10st. 26. 10st. 25c. 10st. 25c. **PARIS.** **Jan. 4. Jan. 5. Jan. 1. **Jan. 1. 10st. 20st. 25c. 25st. 27st. **Jan. 1. 25st. 25st. 25st. 25st. 27st. **Jan. 1. 25st. 25st. 25st. 25st. **Jan. 1. 25st. 25st. 25st. 25st. 25st. 25st. **Jan. 1. 25st.	4,540 Croydon 314. 2s. 10d. 2,530 Portsmouth & Arundel 50 2,0502 Dudley 100 761 5,650 Rochdale 85 112 600 Derby 100 190	Sampled Dec. 15, and sold at Swansea, Jan. 6, 1835. MINES. 2 5 6 7 8 Price. Amount of each parcel. Price. Amount of each parcel. Cronebane 101 55 1217 4 18 6 94 18 0 ditto 101 44 121 3 13 0 368 13 0 tinencias. 8 304 98 26 13 6 213 6
Eichange	190,000 Do. (optional) Loan 100 30 3,006 Grand Western 100 30 6,006 Giamorgansh 172 13 4 280 1,606 Gioucester & Berkleyr. 100 15 9,606 Gioucester & Berkleyr. 100 15 9,606 Gioucester & Berkleyr. 100 15 9,606 Gioucester & Berkleyr. 100 15 9,607 100 15 9,607 100 15 9,607 100 100 15 9,607 100	ditto 69 1 354 6 17 431 11 0 136 136 14 14 3 6 186 40 ditto 77 6 131 5 9 385 0 385 1332 4 10 6 286 19 10
Dutch, 36 per Cent.	DOCKS 2,000 & 1065 \cdot Commercial 109 85 \\ 08,607 East India	SALE OF COPPER ORE AT REDRUTH . Sampled Dec. 23, and Sold at Andrew's Hotel, Redruth, Jan. 7, 1836. **MINES.** Tons.** Price. ** ack parcel.** Whl. Jewel 76 6 13 0 565 0 0 ditto 64 4 19 0 316 16 0 ditto 64 4 19 0 316 16 0 ditto 64 4 19 0 316 16 0 ditto 63 4 4 0 964 12 6 ditto 21 1 2 0 23 2 ditto 63 4 4 0 964 12 6 ditto 21 1 2 0 23 2 ditto 63 4 4 0 964 12 6 ditto 31 1 2 0 23 2 ditto 63 4 6 0 66. 31 1 0 ditto 31 1 2 0 23 2 ditto 62 1 0 6 663 11 0
Ditto, New, do. mab 5 mab 5 mab 6 mab 6 mab 6 mab 7 mab 7 mab 7 mab 8 ma	25,000 Ditto Marine 3 54 Ditto Life. 79	ditto 57 . 5 7 0 . 304 19 0 ditto 34 . 314 6 . 126 13 ditto 56 . 9 17 0 . 551 13 0 ditto 34 . 314 6 . 126 13 ditto 34 . 312 9 6 . 536 8 6 ditto 34 . 314 6 . 334 0 ditto 34 . 312 9 6 . 536 8 6 ditto 45 . 18 0 . 558 6 0 ditto 46 . 1 18 0 . 87 8 ditto 96 . 8 9 0 . 811 4 0 ditto 65 . 8 10 . 355 7 6 ditto 35 . 351 7 6 ditto 46 . 1 18 0 . 87 9 4 ditto 36 . 3 18 0 . 89 12 ditto 36 . 3 18 0 . 89 12 ditto 36 . 3 18 0 . 89 12 ditto 33 . 3 17 0 . 334 15 0 W. Frovid. 71 . 5 18 6 420 13 ditto 33 . 3 17 0 . 334 15 0 W. Frovid. 71 . 5 18 6 420 13 ditto 36 . 3 18 0 . 34 12 ditto 38 . 3 17 0 . 334 15 0 W. Frovid. 71 . 5 18 6 420 13 ditto 38 . 3 17 0 . 334 15 0 W. Frovid. 71 . 5 18 6 420 13 ditto 38 . 3 17 0 . 334 15 0 W. Frovid. 71 . 5 18 6 420 13 ditto 38 . 3 17 0 . 334 15 0 W. Frovid. 71 . 5 18 6 420 13 ditto 38 . 3 17 0 . 334 15 0 W. Frovid. 71 . 5 18 6 420 13 ditto 38 . 3 17 0 . 334 15 0 W. Frovid. 71 . 5 18 6 420 13 ditto 38 . 3 17 0 . 334 15 0 W. Frovid. 71 . 5 18 6 420 13 ditto 38 . 3 17 0 . 334 15 0 W. Frovid. 71 . 5 18 6 420 13 ditto 38 . 3 17 0 . 334 15 0 W. Frovid. 71 . 5 18 6 420 13 ditto 38 . 3 17 0 . 334 15 0 W. Frovid. 71 . 5 18 6 420 13 ditto 38 . 3 17 0 . 334 15 0 W. Frovid. 71 . 5 18 6 420 13 ditto 38 . 3 17 0 . 334 15 0 W. Frovid. 71 . 5 18 6 420 13 ditto 38 . 3 17 0 . 334 15 0 W. Frovid. 71 . 5 18 6 420 13 ditto 38 . 3 17 0 . 334 15 0 W. Frovid. 71 . 71 0 . 344 15 0 W. Frovid. 71 0 W. Frovid. 71 0 W. Frovid. 71 0 W. Frovid. 71 0
Redeemable Lond Amer Bece 9 104 Mississippi 6 1841, 6.51, 6 Dec. 9 104 Mississippi 6 1841, 6.51, 6 Dec. 9 102 Alabama. 5 1852 116 1165	200 Economic Life 250 315 2,600 Provident Life 10 10 10 10 10 10 10 1	ditto 102 6 0 0 642 12 0 ditto 10 3 7 6 33 13 6 ditto 90 5 17 0 5 7 3 0 W. Montag. 44 5 6 6 5 25 13 WhealTolgus 75 7 11 0 565 5 0 West Tolgus 38 4 .5 6 162 9 ditto 68 9 11 6 363 2 9 Prov. Mines 34 7 6 0 248 4 ditto 55 10 0 0 5 5 0 0 0 Charlat. U.M.28 13 16 6 387 2 0 ditto 43 4 4 0 180 12 0 South Towan 21 3 17 6 17 6 ditto 71 4 7 6 343 18 0 Whl. Kitty 12 12 11 6 150 48 0 ditto 71 4 7 6 310 12 6 Total Produce. Wheal Jewel. 515 tons 2365 6 6 Wheal Julia 94 453 12 6 Cars Brea 493 3361 15 0 Whl. Frovidence? 1 429 13 6 459 14 6 459 14 6 459 15
1800 1800	3,000 Australania	Wheal Tolgus 341 1879 10 Wh. Montague 48 225 12 48 W. Charlotte231 992 7 6 West Tolgus 38 162 9 Evant.
Frices Frices represented	300 Bath 16 25 25 25 25 25 25 25 2	eis. Tresavean 1919—Wheal Unity Wood 409—Fowey Consols 393—Great 58. leorge 312—Maration Mines 230—Consolistated Mines 330—Wheal Jewel 196—arharrack 174—Pembroke 151—Hallen Beagle 125—Poldice 125—Bazley's Ore 56 emstruthal 17—Tingtang 9—Total 2678. METEOROLOGICAL JOURNAL, 1835-6 METEOROLOGICAL JOURNAL, 1835-6 Journal, 31 from, 30 to 3350,21 to Stat. January, 1836.
Senta eff. \$6, 10 12 10 11 10 11 Buence Ayres 1	246 Cantesbury 256 256 257 258	wow on the morning of the 1st and evening of the 3st instant. A little rain on the cernings of the 4th and 6th. Rain fallen 625 of an Inch. CRARLES HENRY ADAMS. HIGH WATER AT LONDON BRIDGE, from Jan. 9 to Jan. 15. torning